HP Large Format Printing Material Swatchbook

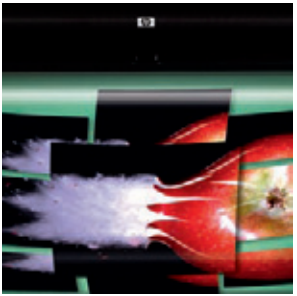
The complete media portfolio for the graphics and technical markets for aqueous-based inks.

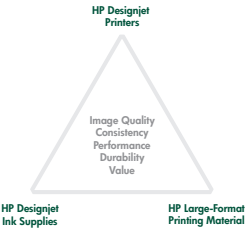
EMEA Edition, April 2007

HP makes it easy to find the perfect printing material for every application. Use this swatchbook to touch, feel and choose from a broad portfolio of products.

HP Designjet Printing System

HP Designjet printers, large format printing material and genuine dye or fade resistant UV and pigment based ink supplies are precisely engineered and tested to work together as an integrated, highly calibrated system. The result? Reliable printer performance, increased value for even the most demanding print applications and consistent image quality.





HP offers one of the broadest media portfolios, specifically designed to meet the demands of graphics and technical professionals. HP Designjet printing material and ink supplies produce brilliant results across a range of indoor and outdoor printing applications. Original HP supplies unleash the full capabilities of HP Designjet printers to deliver superior quality, an excellent range of accurate colours and consistently durable prints.

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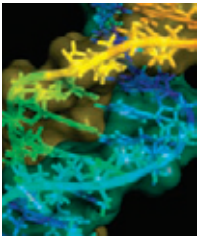
Why HP printing material?

HP invests more than $1 billion each year in printing research and development. This commitment to technological innovation drives the engineering, testing and manufacturing of all its large format printing material. As a result, HP offers an extensive portfolio of large format printing material to support a broad range of graphics and technical printing applications.

- **When quality is paramount**
  HP Premium printing material is the best choice when superior quality is crucial. These media deliver exceptional image quality, absolute colour accuracy and long-lasting durability for critical indoor and outdoor applications.
- **When the bottom line is top of mind**
  HP Universal printing material offers an economical choice that is convenient to use for greater productivity and consistent quality results. In addition, these media are compatible with both HP Designjet and non-HP large format printers.

For more information please visit:
www.hp.com/go/designjet/supplies

The science behind large format printing material.



HP large format printing material, printers and ink supplies are engineered and tested to work together as an integrated, highly calibrated printing system. In fact, HP has earned more than 9,000 printing and imaging patents worldwide, including 4,000 for its printing supplies technologies. No competitor comes close to HP's legacy of innovation and commitment to excellence.

Peerless print quality. HP printing material produces eye-catching, photo-quality images and graphics unrivalled in the industry. Why? HP large format printing material is more than just paper – it is actually scientific innovation, engineered to deliver consistently brilliant, true-to-life print quality.

Maximum versatility. HP scientists have developed inkjet technology that prints on more than 70 different types of HP large format printing material. Unique ingredients and specialised coatings make HP media ideal for a range of unique printing applications, including colourful trade show displays, durable outdoor banners, eye-catching backlit signs and fine art photographs.

Unmatched fade resistance. HP is an industry leader in fade resistance. Select HP large format printing material, when used with HP Vivera inks (pigment or dye-based) or HP UV inks, to produce exceptional photo-quality prints that can resist fading for generations*.

For details, see www.hp.com/go/supplies/printpermanence

Greater reliability. HP large format printing material delivers consistent, high-quality results because it is engineered with specialised ink-receptive coatings to control performance before, during and after printing. Prints have vivid images and crisp text, with fewer smears and smudges.

Print with Confidence. Original HP Printing Supplies.

*See the User's Guide for information on paper water resistance. Fade resistance based on internal HP lightfade testing on a range of HP creative and specialty media; confirmation tests in progress at Wilhelm Imaging Research, Inc.

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How to buy HP large format printing material

Customers can place most large format printing material orders with their HP reseller or by visiting the HP Designjet Supplies Centre website at **www.hp.com/go/designjet/supplies**
Click on My shopping list on the left navigation bar to find the nearest HP large format supplies specialised reseller.

Resellers are asked to contact their local wholesalers or HP account managers for HP large format printing material orders.

Products listed with ▲ are only available through limited wholesalers. Please contact your local HP account manager for more information on these products.

Your online printing supplies resource

HP's interactive Designjet Supplies Centre website offers help and information to address every printing supplies need. Customers can visit
www.hp.com/go/designjet/supplies
to find the following information:

- Up-to-date large format printing material product information
- ICC media profiles
- Step-by-step training
- Application-specific how-to workshops
- Large format images
- Print samples
- Media-chooser tool
- Lamination recommendation: **http://h41186.www4.hp.com/country/us/en/supplies/laminates.html?pageseq=763271**
- Printing tips and tricks
- Customisable sales tools

Large format printing material datasheets feature the latest product information, such as specifications, testing results and printer/ink supplies compatibility. These are available in PDF format and can be printed or downloaded from the site.

HP Warranty

HP large format printing material is guaranteed against manufacturing flaws and defects and is designed to resist printer jams when used properly. If for any reason the user is unsatisfied with HP large format printing material, they should contact their HP reseller.

Bond and Coated Papers

Used by a wide range of large format printer users where economical printing is a must. These media produce crisp, sharp text and lines, and are designed to handle up to medium density large area fills.

HP Universal Bond Paper 80 g/m^2

HP Bright White Inkjet Paper 90 g/m^2

HP Universal Coated Paper 95 g/m^2

HP Coated Paper 90 g/m^2

HP Coated Paper SMP 90 g/m^2

HP Universal Heavyweight Coated Paper 120 g/m^2

HP Heavyweight Coated Paper 130 g/m^2

HP Super Heavyweight Plus Matte Paper 210 g/m^2

HP Fluorescent Yellow Coloured Paper 100 g/m^2

HP Yellow Coloured Paper 92 g/m^2

HP Universal Bond Paper 80 g/m²

HP Universal Bond Paper is an economical paper designed for black and colour line drawings. Ideal for technical applications that require high precision and excellent clarity.

Product specifications	
Grammage:	80 g/m² per ISO 536 test method
Thickness/caliper:	4.2 mil/107 microns per ISO 534 test method
CIE whiteness:	160 per CIE Ganz 82 test method
Brightness:	110% per TAPPI T-452 test method
Opacity:	90% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	Lamination required

Product numbers	**Sizes**
Q1396A	610 mm x 45.7 m
Q1397A	914 mm x 45.7 m
Q1398A	1067 mm x 45.7 m
Q8004A	A1/594 mm x 91.4 m
Q8005A	A0/841 mm x 91.4 m
Q8751A	914 mm x 175 m

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HP Bright White Inkjet Paper 90 g/m²

HP Bright White Inkjet Paper is HP's brightest, low-cost paper for everyday black and colour line drawings. The specially treated surface dries instantly and consistently produces crisp line resolution and high-contrast colour prints.

Product specifications	
Grammage:	90 g/m² per ISO 536 test method
Thickness/caliper:	4.8 mil/122 microns per ISO 534 test method
CIE whiteness:	163 per CIE Ganz 82 test method
Brightness:	95% per TAPPI T-452 test method
Opacity:	93% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**
Lightfastness (indoor)	6 months
Waterfastness	Lamination required

Product numbers	**Sizes**
C6035A	610 mm x 45.7 m
C6036A	914 mm x 45.7 m
C6810A	914 mm x 91.4 m
Q1444A	A0/841 mm x 45.7 m
Q1445A	A1/594 mm x 45.7 m

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HP Universal Coated Paper 95 g/m²

HP Universal Coated Paper is an economical material ideal for a variety of technical and graphics applications.

Product specifications	
Grammage:	95 g/m² per ISO 536 test method
Thickness/caliper:	4.9 mil/124 microns per ISO 534 test method
CIE whiteness:	117 per CIE Ganz 82 test method
Brightness:	89% per TAPPI T-452 test method
Opacity:	89% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	3 months	>1 year
Waterfastness	Lamination required	

Product numbers	**Sizes**
Q1404A	610 mm x 45.7 m
Q1405A	914 mm x 45.7 m
Q1406A	1067 mm x 45.7 m
Q1408A	1524 mm x 45.7 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Coated Paper 90 g/m²

HP Coated Paper is dye and UV ink compatible and designed specially to provide colour-accurate prints, working comps and design proofs. This economical, bright-white paper beautifully captures vivid, high-resolution colour and dense black images.

Product specifications	
Grammage:	90 g/m² per ISO 536 test method
Thickness/caliper:	4.5 mil/114 microns per ISO 534 test method
CIE whiteness:	143 per CIE Ganz 82 test method
Brightness:	89% per TAPPI T-452 test method
Opacity:	93% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**
Lightfastness (indoor)*	3 months
Waterfastness	Lamination required

Product numbers	**Sizes**
C6019B	610 mm x 45.7 m
C6020B	914 mm x 45.7 m
C6567B	1067 mm x 45.7 m
C6568B	1372 mm x 45.7 m
C6980A	914 mm x 91.4 m
Q1441A	A0/841 mm x 45.7 m
Q1442A	A1/594 mm x 45.7 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Coated Paper SMP 90 g/m² ▲

HP Coated Paper SMP is an economical, bright white paper which generates colour-accurate everyday prints, working comps and design proofs. Ideal for illustrations and light ink-density graphics.

Product specifications	
Grammage:	90 g/m² per ISO 536 test method
Thickness/caliper:	4 mil/100 microns per ISO 534 test method
	4.0 mil/102 microns per ISO 534 test method
CIE whiteness:	110
Brightness:	90% per CIE Ganz 82 test method
Opacity:	87% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**
Lightfastness (indoor)*	2 months
Waterfastness	Lamination required

Product numbers	**Sizes**
Q1961A	458 mm x 610 mm
Q1962A	610 mm x 914 mm
Q7897A	458 mm x 45.7 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye ink supplies.

▲See page 9.

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HP Universal Heavyweight Coated Paper 120 g/m²

HP Universal Heavyweight Coated Paper is an economical paper that offers high-quality images with no glare and fast drying times. Designed
for full-colour graphics. Ideal for signs and posters that will be frequently changed or replaced.

Product specifications	
Grammage:	120 g/m² per ISO 536 test method
Thickness/caliper:	6.1 mil/155 microns per ISO 534 test method
CIE whiteness:	130 per CIE Ganz 82 test method
Brightness:	>95% per TAPPI T-452 test method
Opacity:	>90% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	Lamination required

Product numbers	**Sizes**
Q1412A	610 mm x 30.5 m
Q1413A	914 mm x 30.5 m
Q1414A	1067 mm x 30.5 m
Q1416A	1524 mm x 30.5 m

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HP Heavyweight Coated Paper 130 g/m²

HP Heavyweight Coated Paper is perfect for durable, long-term applications such as signs and posters. The bright, matte inkjet paper makes colourful, medium ink-density images looking crisp and smooth.

Product specifications	
Grammage:	130 g/m² per ISO 536 test method
Thickness/caliper:	6.6 mil/168 microns per ISO 534 test method
CIE whiteness:	144 per CIE Ganz 82 test method
Brightness:	89% per TAPPI T-452 test method
Opacity:	96% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor)	2 years	>100 years
Waterfastness	Lamination required	

Product numbers	**Sizes**
C6029C	610 mm x 30.5 m
C6030C	914 mm x 30.5 m
C6569C	1067 mm x 30.5 m
C6570C	1372 mm x 30.5 m
C6977C	1524 mm x 30.5 m
Q1956A	1067 mm x 67.5 m
Q1957A	1524 mm x 67.5 m

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HP Super Heavyweight Plus Matte Paper 210 g/m²

HP Super Heavyweight Plus Matte Paper is a best-in-class graphics display media that delivers superior image quality and ripple-free printing. It has a barrier layer beneath a thick top coating that resists ripples even at high ink loads. The media maximises productivity with application versatility, instant dry time and great laminate compatibility.

Product specifications	
Grammage:	210 g/m² per ISO 536 test method
Thickness/caliper:	10.2 mil/260 microns per ISO 534 test method
CIE whiteness:	130 per CIE Ganz 82 test method
Brightness:	91% per TAPPI T-452 test method
Opacity:	98% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor) indoor recommended.	≤6 months, lamination graphics (>124 years)	For long term
Lightfastness (commercial window):		>1 year
Waterfastness	Excellent waterfastness when printed with UV ink. Lamination recommended with dye inks.	

Product numbers	**Sizes**
Q6626A	610 mm x 30.5 m
Q6627A	914 mm x 30.5 m
Q6628A	1067 mm x 30.5 m
Q6630A	1524 mm x 30.5 m

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HP Fluorescent Yellow Coloured Paper 100 g/m² ▲

HP Fluorescent Yellow Coloured Paper is ideal for eye-catching retail advertisements, banners and short-term signs. The ultra-bright matte yellow surface contrasts well with bold dark text.

Product specifications	
Grammage:	100 g/m² per ISO 536 test method
Thickness/caliper: method	5 mil/127 microns per ISO 534 test
Finish:	Matte

Image permanence	
Waterfastness	Lamination required

Product number	**Size**
Q1757A	914 mm x 45.7 m

▲See page 9.

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HP Yellow Coloured Paper 92 g/m²▲

HP Yellow Coloured Paper is ideal for retail advertisements, banners and short-term signs. The ultra-bright matte yellow surface contrasts well with bold dark text.

Product specifications	
Grammage:	95 g/m² per ISO 536 test method
Thickness/caliper:	4.9 mil/124 microns per ISO 534 test method
Opacity:	94% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	Lamination required

Product numbers	**Sizes**
Q1760A	914 mm x 45.7 m
Q6588A	1270 mm x 45.7 m
Q6596A	594 mm x 90 m

▲See page 9.

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January 2007

HP Printing Material for Large Format Printers
Compatibility information

Bond and Coated Papers

HP Designjet Printers	Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30nr/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll: 18-in roll (A2+/458 mm wide)	Roll: A1 roll (594 mm wide)	Roll: 24-in roll (610 mm wide)	Roll: A0 roll (841 mm wide)	Roll: 36-in roll (914 mm wide)	Roll: 42-in roll (1067 mm wide)	Roll: 50-in roll (1270 mm wide)	Roll: 54-in roll (1372 mm wide)	Roll: 60-in roll (1524 mm wide)	Cut Sheet: 13-in x 19-in / A3+ (330mm x 483mm)	Cut Sheet: 18-in x 24-in / A2+ (458mm x 610mm)	Cut Sheet: 24-in x 36-in / A1+ (610mm x 914mm)
HP Universal Bond Paper 80 g/m²-45.7 m										•[1]	•	•	•			•	•	•	•	•		•		•	•	•		•		•	•	•			Q1396A		Q1397A	Q1398A							
HP Universal Bond Paper 80 g/m²-91.4 m																			•					•	•	•		•		•	•	•		Q8004A		Q8005A									
HP Universal Bond Paper 80 g/m²-175 m																									•					•	•						Q8751A								
HP Bright White Inkjet Paper 90 g/m²-45.7 m								•[1]	•[1]	•[1]	•	•	•	•	•	•	•	•	•	•		•		•	•	•		•		•	•	•		Q1445A	C6035A	Q1444A	C6036A							
HP Bright White Inkjet Paper 90 g/m²-91.4 m																								•	•	•		•		•	•	•					C6810A							
HP Universal Coated Paper 95 g/m²-45.7 m								•[1]	•[1]	•[1]	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Q1404A		Q1405A	Q1406A					Q1408A			
HP Coated Paper 90 g/m²-45.7 m								•[1]	•[1]	•[1]	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		Q1442A	C6019B	Q1441A	C6020B	C6567B			C6568B				
HP Coated Paper 90 g/m²-91.4 m																			•	•				•	•	•		•		•	•	•					C6980A								
HP Coated Paper SMP 90 g/m²-100 sht/45.7 m					•[3]	•[3]	•[2]	•	•[1]	•[1]	•	•	•			•	•	•	•	•		•				•		•		•		•	Q7897A										Q1961A	Q1962A	
HP Universal Heavyweight Coated Paper 120g/m²-30.5 m								•[1]	•[1]	•[1]			•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•[4]	•			Q1412A		Q1413A	Q1414A					Q1416A			
HP Heavyweight Coated Paper 130 g/m²-30.5 m								•[1]	•[1]	•[1]	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			C6029C		C6030C	C6569C			C6570C	C6977C			
HP Heavyweight Coated Paper 130 g/m²-67.5 m																								•	•	•	•	•	•	•	•	•						Q1956A					Q1957A			
HP Super Heavyweight Plus Matte Paper 210g/m²-30.5 m																			•	•	•	•	•	•	•	•	•	•	•	•	•	•			Q6626A		Q6627A	Q6628A					Q6630A			
HP Fluorescent Yellow Coloured Paper 100 g/m²-45.7 m													•					•	•	•		•				•		•		•	•	•					Q1757A								
HP Yellow Coloured Paper 92 g/m²-45.7 m/90 m													•					•	•	•		•				•		•		•	•	•		Q6596A (90m)			Q1760A		Q6588A						

[1] Compatible with cut sheet media and 24" roll (roll feed accessory required)
[2] Compatible with A2+ and smaller cut sheet media
[3] Compatible with 18-in rolls, A2+ and smaller cut sheet media
[4] Compatible with 24", 36", 42" rolls, only on HP Designjet Z6100

Technical Papers

HP offers a variety of large format printing material designed for technical applications such as geographic information systems (GIS) designs; architectural, engineering and construction (AEC) schematics; and computer-aided drafting (CAD) and mechanical drawings. HP technical products produce output with crisp, black text and fine line detail, as well as excellent solid area fills.

HP Special Inkjet Paper 90 g/m^2

HP Natural Tracing Paper 90 g/m^2

HP Special Inkjet Paper 90 g/m²

HP Special Inkjet Paper is an economical, everyday paper, ideal for high-resolution presentation graphics.

Product specifications	
Grammage:	90 g/m² per ISO 536 test method
Thickness/caliper:	4.3 mil/109 microns
Brightness:	96% per TAPPI T-452 test method
Opacity:	91% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	Lamination required

Product numbers	**Sizes**
51631D	610 mm x 45.7 m
51631E	914 mm x 45.7 m

HP Natural Tracing Paper 90 g/m²

HP Natural Tracing Paper is designed for reproducible final drawings that are exceptionally durable.

Product specifications	
Grammage:	90 g/m² per ISO 536 test method
Thickness/caliper:	3 mil/76 microns per ISO 534 test method
Brightness:	61% per TAPPI T-452 test method
Opacity:	25% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	Lamination required

Product numbers	**Sizes**
C3868A	914 mm x 45.7 m
C3869A	610 mm x 45.7 m

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April 2007

HP Printing Material for Large Format Printers
Compatibility information

Technical Papers

HP Designjet Printers	Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30n/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll: 18-in roll (A2+/458 mm wide)	Roll: A1 roll (594 mm wide)	Roll: 24-in roll (610 mm wide)	Roll: A0 roll (841 mm wide)	Roll: 36-in roll (914 mm wide)	Roll: 42-in roll (1067 mm wide)	Roll: 50-in roll (1270 mm wide)	Roll: 54-in roll (1372 mm wide)	Roll: 60-in roll (1524 mm wide)	Cut Sheet: 13-in x 19-in / A3+ (330mm x 483mm)	Cut Sheet: 18-in x 24-in / A2+ (458mm x 610mm)	Cut Sheet: 24-in x 36-in / A1+ (610mm x 914mm)
HP Special Inkjet Paper 90 g/m²-45.7 m														•	•																			51631D		51631E								
HP Natural Tracing Paper 90 g/m²-45.7 m								•[1]			++	++	++	++	++	++	++	++	++					•	•						•	•			C3869A		C3868A								

[1] Compatible with cut sheet media and 24" roll (roll feed accessory required)

++ Line drawings

Films
(Technical and Graphic)

Technical users need perfect prints for creating archives, reproductions and overlays. Graphic polyester films provide the ideal solution by producing sharp, vivid image quality when used with HP Designjet printers and ink supplies.

HP Clear Film 174 g/m^2

HP White Glossy Opaque Polyester Film 170 g/m^2

HP Matte Film 160 g/m^2

HP White Matte Polyester Film 165 g/m^2

HP Clear Film 174 g/m²

HP Clear Film is ideal for multiple overlays and transparent images. An optically clear film that provides excellent ink adhesion, superior bleed control and bright vivid colours.

Product specifications	
Grammage:	174 g/m² per ISO 536 test method
Thickness/caliper:	4 mil/102 microns per ISO 534 test method
Opacity:	8% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	Lamination required

Product numbers	**Sizes**
C3875A	914 mm x 22.9 m
C3876A	610 mm x 22.9 m

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HP White Glossy Opaque Polyester Film 170 g/m² ▲

HP White Glossy Opaque Polyester Film is a high-quality white opaque polyester film with a super-glossy white finish for universal use. Its unique, fast-drying formula makes it suitable for a wide range of full-colour inkjet applications.

Product specifications	
Grammage:	170 g/m² per ISO 536 test method
Thickness/caliper:	4.7 mil/120 microns per ISO 534 test method
CIE whiteness:	95 per CIE Ganz 82 test method
Brightness:	85% per TAPPI T-452 test method
Opacity:	90% per TAPPI T-425 test method
Finish:	Gloss

Image permanence	
Waterfastness	Lamination required

Product number	**Size**
C7957A	1067 mm x 15.2 m

▲See page 9.

HP Matte Film 160 g/m²

HP Matte Film has an erasable surface on one side that allows for redraw in pen, pencil or marker, ideal for accumulating changes during the review process and for original and high-volume reproducible drawings. It is archivable and smear resistant.

Product specifications	
Grammage:	160 g/m² per ISO 536 test method
Thickness/caliper:	5 mil/127 microns per ISO 534 test method
Brightness:	72% per ISO 2469 test method
Opacity:	34% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	Lamination required

Product numbers	**Sizes**
51642A	610 mm x 38.1 m
51642B	914 mm x 38.1 m

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HP White Matte Polyester Film 165 g/m² ▲

HP White Matte Polyester Film is suited for both indoor and outdoor applications. It is a quality white opaque matte polyester film with waterproof inkjet coating. This matte film has extremely high tensile strength and dimensional stability.

Product specifications	
Grammage:	165 g/m² per ISO 536 test method
Thickness/caliper:	6.5 mil/165 microns per ISO 534 test method
Brightness:	90% per TAPPI T-452 test method
Opacity:	93% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	3 to 12 months	
Lightfastness (commercial window)		1 year
Waterfastness	Waterproof	

Product number	**Size**
Q1736A	914 mm x 15.2 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.
▲See page 9.

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HP Printing Material for Large Format Printers

Compatibility information

Films (technical and graphic)	HP Designjet Printers: Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30n/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll: 18-in roll (A2+/458 mm wide)	Roll: A1 roll (594 mm wide)	Roll: 24-in roll (610 mm wide)	Roll: A0 roll (841 mm wide)	Roll: 36-in roll (914 mm wide)	Roll: 42-in roll (1067 mm wide)	Roll: 50-in roll (1270 mm wide)	Roll: 54-in roll (1372 mm wide)	Roll: 60-in roll (1524 mm wide)	Cut Sheet: 13-in x 19-in / A3+ (330mm x 483mm)	Cut Sheet: 18-in x 24-in / A2+ (458mm x 610mm)	Cut Sheet: 24-in x 36-in / A1+ (610mm x 914mm)
HP Clear Film 174 g/m²-22.9 m											•	•	•	•	•	•	•	•	•					•	•	•		•			•	•			C3876A		C3875A							
HP White Glossy Opaque Polyester Film 170 g/m²-15.2 m																										•		•										C7957A						
HP Matte Film 160 g/m²-38.1 m								•[1]			•	•	•	•	•	•	•	•	•					•	•						•	•			51642A		51642B							
HP White Matte Polyester Film 165 g/m²-15.2 m													•				•	•	•	•	•	•	•	•	•	•	•	•			•	•					Q1736A							

[1] Compatible with cut sheet media and 24" roll (roll feed accessory required)

Photographic Papers

HP semi-gloss and high-gloss papers provide great image quality for indoor signs and presentations at affordable prices. Premium photographic papers offer sharp, durable photo-quality images for graphic and point-of-purchase displays. HP Productivity Photo Papers and HP Universal Instant-dry Photo Papers enable posters and other large graphics to be laminated immediately after printing.

HP Universal High-gloss Photo Paper 190 g/m^2

HP Universal Instant-dry Gloss Photo Paper 190 g/m^2

HP Universal Semi-gloss Photo Paper 190 g/m^2

HP Universal Instant-dry Semi-gloss Photo Paper 190 g/m^2

HP Semi-gloss Photo CP Paper 179 g/m^2

HP High-gloss Photo CP Paper 179 g/m^2

HP Photo Imaging Satin Paper 183 g/m^2

HP Photo Imaging Gloss Paper 189 g/m^2

HP RC Matte Photo Paper 200 g/m^2

HP Premium Plus Gloss Photo Paper 286 g/m^2

HP Premium Plus Satin Photo Paper 286 g/m^2

HP Premium Instant-dry Gloss Photo Paper 260 g/m^2

HP Premium Instant-dry Satin Photo Paper 260 g/m^2

HP Matte Photo Paper 196 g/m^2

HP Professional Satin Photo Paper 300 g/m^2

HP Universal High-gloss Photo Paper 190 g/m²

HP Universal High-gloss Photo Paper is an economical and versatile choice for presentation graphics, displays and compatible with many large format printers.

Product specifications	
Grammage:	190 g/m² per ISO 536 test method
Thickness/caliper:	6.6 mil/168 microns per ISO 534 test method
Brightness:	89% per TAPPI T-452 test method
Opacity:	95% per TAPPI T-425 test method
Finish:	High-gloss

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	2.6 years (tested under glass)	>31 years (tested under glass)
Waterfastness	Lamination required for dye inks.	

Product numbers	**Sizes**
Q1426A	610 mm x 30.5 m
Q1427A	914 mm x 30.5 m
Q1428A	1067 mm x 30.5 m
Q1430A	1524 mm x 30.5 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Universal Instant-dry Gloss Photo Paper 190 g/m²

HP Universal Instant-dry Gloss Photo Paper is a low cost, porous glossy instant dry photo media.

Product specifications	
Grammage:	190 g/m² per ISO 536 test method
Thickness/caliper:	7.4 mil/188 microns per ISO 534 test method
CIE whiteness:	90 per CIE Ganz 82 test method
Brightness:	107% per ISO 2469 test method
Finish:	Gloss

Image permanence	**Dye**
Lightfastness (indoor)*	2.3 years (tested under glass)

Product numbers	**Sizes**
Q6574A	610 mm x 30.5 m
Q6575A	914 mm x 30.5 m
Q6576A	1067 mm x 30.5 m
Q6578A	1524 mm x 30.5 m
Q8754A	1067 mm x 61 m
Q8756A	1524 mm x 61 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Universal Semi-gloss Photo Paper 190 g/m²

HP Universal Semi-gloss Photo Paper is a versatile low-cost, semi-gloss photo paper that provides superior-image quality and consistent results every time using dye or UV inks. The paper is compatible with many large format printers.

Product specifications	
Grammage:	190 g/m² per ISO 536 test method
Thickness/caliper:	6.6 mil/168 microns per ISO 534 test method
CIE whiteness:	Lamination required for dye inks. Testing ongoing for UV inks
Brightness:	89% per TAPPI T-452 test method
Opacity:	95% per TAPPI T-425 test method
Finish:	Semi-gloss

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	2 years (tested under glass)	>30 years (tested under glass)
Waterfastness	Lamination required for dye inks.	

Product numbers	**Sizes**
Q1420A	610 mm x 30.5 m
Q1421A	914 mm x 30.5 m
Q1422A	1067 mm x 30.5 m
Q1423A	1372 mm x 30.5 m
Q1424A	1524 mm x 30.5 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Universal Instant-dry Semi-gloss Photo Paper 190 g/m²

HP Universal Instant-dry Semi-gloss Photo Paper is a low cost, porous semi-glossy instant dry photo media.

Product specifications	
Grammage:	190 g/m² per ISO 536 test method
Thickness/caliper:	7.4 mil/188 microns per ISO 534 test method
CIE whiteness:	90 per CIE Ganz 82 test method
Brightness:	107% per ISO 2469 test method
Finish:	Semi-gloss

Image permanence	**Dye**
Lightfastness (indoor)*	3.3 years (tested under glass)

Product numbers	**Sizes**
Q6579A	610 mm x 30.5 m
Q6580A	914 mm x 30.5 m
Q6581A	1067 mm x 30.5 m
Q6583A	1524 mm x 30.5 m
Q8755A	1067 mm x 61 m
Q8757A	1524 mm x 61 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Semi-gloss Photo CP Paper 179 g/m²

HP Semi-gloss Photo CP Paper delivers outputs that look, feel and perform like professional photo prints. Superior indoor light fastness ensures sharp, long-lasting high-quality output.

Product specifications	
Grammage:	179 g/m² per ISO 536 test method
Thickness/caliper:	6.5 mil/165 microns per ISO 534 test method
Brightness:	80% per TAPPI T-452 test method
Opacity:	88% per TAPPI T-425 test method
Finish:	Semi-gloss

Image permanence	**Dye**
Lightfastness (indoor)	3 months
Waterfastness	Lamination required

Product number	**Size**
C6032A	914 mm x 30.5 m

HP High-gloss Photo CP Paper 179 g/m²

HP High-gloss Photo CP Paper delivers outputs that look, feel and perform like professional photo prints. Superior indoor lightfastness ensures sharp, long-lasting high-quality output.

Product specifications	
Grammage:	179 g/m² per ISO 536 test method
Thickness/caliper:	6.5 mil/165 microns per ISO 534 test method
Brightness:	80% per TAPPI T-452 test method
Opacity:	88% per TAPPI T-425 test method
Finish:	High-gloss

Image permanence	**Dye**
Lightfastness (indoor)	3 months
Waterfastness	Lamination required.

Product numbers	**Sizes**
C6034A	914 mm x 30.5 m
C6573A	1067 mm x 30.5 m

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HP Photo Imaging Satin Paper 183 g/m²

HP Photo Imaging Satin Paper is a high-speed, fast-drying, low-glare printing material. It captures maximum colour, depth and image detail, making it ideal for posters, displays and signs.

Product specifications	
Grammage:	183 g/m² per ISO 536 test method
Thickness/caliper:	7.2 mil/183 microns per ISO 534 test method
Brightness:	85% per TAPPI T-452 test method
Opacity:	92% per TAPPI T-425 test method
Finish:	Satin

Image permanence	**Dye**
Lightfastness (indoor)*	9.2 years (tested under glass)
Waterfastness	Lamination required

Product numbers	**Sizes**
C6959A	914 mm x 30.5 m
C6960A	1067 mm x 30.5 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye ink supplies.

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HP Photo Imaging Gloss Paper 189 g/m²

HP Photo Imaging Gloss Paper is a high speed printing material delivering ultimate glossy, photo-quality indoor posters, displays and signs.

Product specifications	
Grammage:	189 g/m² per ISO 536 test method
Thickness/caliper:	7.2 mil/183 microns per ISO 534 test method
Brightness:	85% per TAPPI T-452 test method
Opacity:	92% per TAPPI T-425 test method
Finish:	Gloss

Image permanence	**Dye**
Lightfastness (indoor)	11 years
Waterfastness	Lamination required

Product numbers	**Sizes**
C6963A	914 mm x 30.5 m
C6964A	1067 mm x 30.5 m

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HP RC Matte Photo Paper 200 g/m² ▲

HP RC Matte Photo Paper is a coated, white opaque, matte finish photographic paper designed for high-quality, graphic arts applications with good cold and hot-lamination capability.

Product specifications	
Grammage:	200 g/m² per ISO 536 test method
Thickness/caliper:	8.3 mil/211 microns per ISO 534 test method
Brightness:	100% per TAPPI T-452 test method
Opacity:	95% per ISO 2471 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	10.8 months (tested under glass)	>25 years (tested under glass)
Waterfastness	Lamination required	

Product numbers	**Sizes**
C7946A	914 mm x 30.5 m
C7947A	1372 mm x 30.5 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

▲See page 9.

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HP Premium Plus Gloss Photo Paper 286 g/m²

HP Premium Plus Gloss Photo Paper is a glossy photo and proofing media with an exceptional fade resistance. This paper delivers beautiful prints in a consistent quality with a professional look and feel and the colour stability professionals demand.

Product specifications	
Grammage:	286 g/m² per ISO 536 test method
Thickness/caliper:	11.3 mil/287 microns per ISO 534 test method
CIE whiteness:	≥99% per CIE Ganz 82 test method
Brightness:	≥87% per ISO 2469 test method
Opacity:	≥93% per ISO 2470 test method
Finish:	Gloss

Image permanence	**Dye**
Lightfastness (indoor)*	82 years

Product numbers	**Sizes**
Q5486A	A3+/330 mm x 483 mm
Q5487A	A2+/458 mm x 610 mm
Q5488A	610 mm x 15.2 m

*Wilhelm Imaging Research, Inc., concluded that prints made with HP 85 Vivera colour and 84 black ink supplies and HP Premium Plus Gloss Photo Paper or HP Premium Plus Satin Photo Paper may be displayed indoors under glass for 82 years before noticeable fading and staining will occur (tested with HP Designjet 30/130 Printer series). See www.wilhelm-research.com for details.

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HP Premium Plus Satin Photo Paper 286 g/m²

HP Premium Plus Satin Photo Paper is a satin photo and proofing media that delivers beautiful prints, consistent quality, and the colour stability professionals demand.

Product specifications	
Grammage:	286 g/m² per ISO 536 test method
Thickness/caliper:	11.3 mil/287 microns per ISO 534 test method
CIE whiteness:	≥99% per CIE Ganz 82 test method
Brightness:	≥87% per ISO 2469 test method
Opacity:	≥93% per ISO 2470 test method
Finish:	Satin

Image permanence	**Dye**
Lightfastness (indoor)*	82 years

Product numbers	**Sizes**
Q5489A	A3+/330 mm x 483 mm
Q5490A	A2+/458 mm x 610 mm
Q5491A	610 mm x 15.2 m
Q7920A	C2/458 mm x 15.2 m

*Wilhelm Imaging Research, Inc., concluded that prints made with HP 85 Vivera colour and 84 black ink supplies and HP Premium Plus Gloss Photo Paper or HP Premium Plus Satin Photo Paper may be displayed indoors under glass for 82 years before noticeable fading and staining will occur (tested with HP Designjet 30/130 Printer series). See www.wilhelm-research.com for details.

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HP Premium Instant-dry Gloss Photo Paper 260 g/m²

HP Premium Instant-dry Gloss Photo Paper features unrivalved image quality. It is compatible with dye and fade-resistant UV inks and provides an excellent versatility across a broad range of photo and display-graphics applications.

Product specifications	
Grammage:	260 g/m² per ISO 536 test method
Thickness/caliper:	10.3 mil/260 microns per ISO 534 test method
CIE whiteness:	105 per CIE Ganz 82 test method
Brightness:	90% per TAPPI T-452 test method
	92% per TAPPI T-452 test method
Opacity:	95% per TAPPI T-425 test method
Finish:	Gloss

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	4.8 months	150+ years
Waterfastness	Lamination required	

Product numbers	**Sizes**
Q7990A	458 mm x 15.2 m
Q7991A	610 mm x 22.8 m
Q7993A	914 mm x 30.5 m
Q7995A	1067 mm x 30.5 m
Q7999A	1524 mm x 30.5 m

*Wilhelm Imaging Research.

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HP Premium Instant-dry Satin Photo Paper 260 g/m²

HP Premium Instant-dry Satin Photo Paper features unrivalled image quality. It is compatible with dye and fade-resistant UV inks and provides an excellent versatility across a broad range of photo and display-graphics applications.

Product specifications	
Grammage:	260 g/m² per ISO 536 test method
Thickness/caliper:	10.3 mil/260 microns per ISO 534 test method
CIE whiteness:	100 per CIE Ganz 82 test method
Brightness:	90% per TAPPI T-452 test method
	92% per TAPPI T-452 test method
Opacity:	95% per TAPPI T-425 test method
Finish:	Satin

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	>4 months	150+ years
Waterfastness	Lamination required	

Product numbers	**Sizes**
Q7992A	610 mm x 22.8 m
Q7994A	914 mm x 30.5 m
Q7996A	1067 mm x 30.5 m
Q8000A	1524 mm x 30.5 m
Q8001A	458 mm x 15.2 m

*Internally tested by HP.

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HP Matte Photo Paper 196 g/m²

HP Matte Photo Paper is a matte photo media that delivers great-looking photos, consistent quality and the colour stability professionals demand.

Product specifications	
Grammage:	196 g/m² per ISO 536 test method
Thickness/caliper:	9.2 mil/234 microns per ISO 534 test method
Brightness:	≥93% per ISO 2469 test method
Opacity:	≥92% per ISO 2470 test method
Finish:	Matte

Image permanence	**Dye**
Lightfastness (indoor)*	10 years

Product number	**Size**
Q5492A	330 mm x 483 mm

*Wilhelm Imaging Research, Inc., concluded that prints made with HP 85 Vivera colour and 84 black ink supplies and HP Premium Plus Gloss Photo Paper or HP Premium Plus Satin Photo Paper may be displayed indoors under glass for 82 years before noticeable fading and staining will occur (tested with HP Designjet 30/130 Printer series). See www.wilhelm-research.com for details.

HP Professional Satin Photo Paper 300 g/m²

HP Professional Satin Photo Paper is ideal for printing exceptional photographs with vivid, true-to-life colours, rich blacks and sharp details. This durable, professional-quality photo paper has a satin finish.

Product specifications	
Grammage:*	300 g/m²
Thickness/caliper:	11.4 mil/290 microns per ISO 534 test method
CIE whiteness:	≥115% per CIE Ganz 82 test method
Brightness:	≥91% per TAPPI T-452 test method
Opacity:	≥97% per TAPPI T-452 test method
Finish:	Satin

Image permanence	**UV**
Lightfastness (indoor)*	>200 years (HP 70 Inks)
Waterfastness	Water resistant when using HP Vivera pigment inks

Product number	**Size**
Q8759A	610 mm x 15.2 m
Q8840A	1118 mm x 15.2 m

*Display permanence rating by HP Image Permanence Lab using Original HP 70 Inks.

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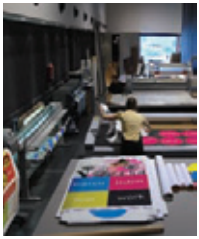
April 2007

HP Printing Material for Large Format Printers
Compatibility information

Photographic Papers	HP Designjet Printers	Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30n/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll: 18-in roll (A2+/458 mm wide)	Roll: A1 roll (594 mm wide)	Roll: 24-in roll (610 mm wide)	Roll: A0 roll (841 mm wide)	Roll: 36-in roll (914 mm wide)	Roll: 42-in roll (1067 mm wide)	Roll: 44-in roll (1118 mm wide)	Roll: 50-in roll (1270 mm wide)	Roll: 54-in roll (1372 mm wide)	Roll: 60-in roll (1524 mm wide)	Cut Sheet: 13-in x 19-in / A3+ (330mm x 483mm)	Cut Sheet: 18-in x 24-in / A2+ (458mm x 610mm)	Cut Sheet: 24-in x 36-in / A1+ (610mm x 914mm)
HP Universal High-gloss Photo Paper 190 g/m²-30.5 m									•[2]	•[2]	•[2]	•	•	•				•	•	•	•	•	•	•	•	•	•	•	•	•			•			Q1426A				Q1427A	Q1428A				Q1430A			
HP High-gloss Photo CP Paper 179 g/m²-30.5 m														•					•		•		•																	C6034A	C6573A							
HP Photo Imaging Gloss Paper 189 g/m²-30.5 m																											•		•											C6963A	C6964A							
HP Universal Semi-gloss Photo Paper 190 g/m²-30.5 m									•[2]	•[2]	•[2]	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•			•			Q1420A				Q1421A	Q1422A			Q1423A	Q1424A			
HP Photo Imaging Satin Paper 183 g/m²-30.5 m																											•		•				•							C6959A	C6960A							
HP Semi-gloss Photo CP Paper 179 g/m²-30.5 m													•					•		•		•																			C6032A								
HP RC Matte Photo Paper 200 g/m²-30.5 m														•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•							C7946A				C7947A				
HP Premium Plus Gloss Photo Paper 286 g/m²-25/20 sht/15.2 m					•[1]	•[3]	•[3]				•[2]																							•			Q5488A										Q5486A	Q5487A	
HP Premium Plus Satin Photo Paper 286 g/m²-25/20 sht/15.2 m					•[1]		•[3]				•[2]																							•	Q7920A		Q5491A										Q5489A	Q5490A	
HP Matte Photo Paper 196 g/m²-50 sht					•						•																				•															Q5492A		
HP Universal Instant-dry Gloss Photo Paper 190 g/m²-30.5 m										•[2]		•		•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			Q6574A		Q6575A	Q6576A				Q6578A			
HP Universal Instant-dry Gloss Photo Paper 190 g/m²-61 m																																•							Q8754A					Q8756A			
HP Universal Instant-dry Semi-gloss Photo Paper 190 g/m²-30.5 m										•[2]		•		•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Q6579A		Q6580A	Q6581A				Q6583A		Q6578A			
HP Universal Instant-dry Semi-gloss Photo Paper 190 g/m²-61 m																																•							Q8755A					Q8757A			
HP Premium Instant-dry Gloss Photo Paper 260g/m²-30.5 m																											•	•	•	•	•	•		Q7990A (15.2m)		Q7991A (22.8m)		Q7993A	Q7995A				Q7999A			
HP Premium Instant-dry Satin Photo Paper 260g/m²-30.5 m																											•	•	•	•	•	•		Q8001A (15.2m)		Q7992A (22.8m)		Q7994A	Q7996A				Q8000A			
HP Professional Satin Photo Paper 300 g/m²-15.2 m																															•	•				Q8759A					Q8840A						

[1] Compatible with A3+/330 mm x 483 mm cut sheet media only
[2] Compatible with cut sheet media and 24" roll (roll feed accessory required)
[3] Compatible with 18-in rolls, A2+ and smaller cut sheet media

Proofing Papers



Use HP Proofing Papers prior to large-run printing to ensure customer satisfaction and maximise efficiency. HP offers a variety of materials, such as HP Matte Proofing Paper, HP High-gloss Proofing Paper and HP Semi-gloss Proofing Paper to accurately capture colour concepts

HP Professional High-gloss Contract Proofing Paper 200 g/m^2

HP Professional Semi-gloss Contract Proofing Paper 235 g/m^2

HP Matte Proofing Paper 146 g/m^2

HP RC Satin Proofing Paper 200 g/m^2

HP Professional High-gloss Contract Proofing Paper 200 g/m² ▲

HP Professional High-gloss Contract Proofing Paper delivers exceptional range and colour accuracy in compliance with ISO and SWOP standards. This microporous, quick-dry media enables proofers to emulate offset and gravure printing processes.

Product specifications	
Grammage:	200 g/m² per ISO 536 test method
Thickness/caliper:	7.48 mil/190 microns per ISO 534 test method
CIE whiteness:	122 per CIE Ganz 82 test method
Brightness:	92% per TAPPI T-452 test method, 93% per ISO 2470 test method
Opacity:	92% per TAPPI T-425 test method, >89% per ISO 2471 test method
Finish:	Gloss

Image permanence	
Waterfastness	Yes, with UV inks

Product numbers	**Sizes**
Q8662A	330 mm x 483 mm
Q8663A	610 mm x 30.5 m
Q8664A	458 mm x 30.5 m

▲See page 9.

HP Professional Semi-gloss Contract Proofing Paper 235 g/m² ▲

HP Professional Semi-gloss Contract Proofing Paper delivers an exceptional colour range for colour-accurate prints. This microporous, instant-dry media meets the most demanding requirements for offset and gravure printing processes.

Product specifications	
Grammage:	235 g/m² per ISO 536 test method
Thickness/caliper:	8.7 mil/220 microns per ISO 534 test method
Brightness:	95 per X-Rite 938 test method
Opacity:	90 per ISO 2471 test method
Finish:	Semi-gloss

Product numbers	**Sizes**
Q7970A	330 mm x 483 mm
Q7971A	610 mm x 30.5 m
Q8049A	458 mm x 30.5 m

▲See page 9.

HP Matte Proofing Paper 146 g/m² ▲

HP Proofing Paper Matte is ideal for graphic designers who want to produce full-bleed, colour-accurate offset emulations. This media is available in several sizes to meet a variety of printing needs.

Product specifications	
Grammage:	146 g/m² per ISO 536 test method
Thickness/caliper:	7 mil/178 microns per ISO 534 test method
CIE whiteness:	2 months indoors with dye ink
Brightness:	100% per TAPPI T-452 test method
Opacity:	97% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**
Lightfastness (indoor)	2 months

Product numbers	**Sizes**
Q1967A	330 mm x 483 mm
Q1968A	610 mm x 30.5 m
Q7896A	458 mm x 30.5 m

▲See page 9.

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HP RC Satin Proofing Paper 200 g/m² ▲

HP RC Satin Proofing Paper is a premium quality, satin-coated photo paper with a matte back. This white, opaque media is designed for proofing applications for HP Designjet printers.

Product specifications	
Grammage:	200 g/m² per ISO 536 test method
Thickness/caliper:	7.7 mil/196 microns per ISO 534 test method
CIE whiteness:	89 per CIE Ganz 82 test method
Brightness:	93% per TAPPI T-452 test method
Opacity:	90% per TAPPI T-425 test method
Finish:	Satin

Image permanence	**Dye**
Lightfastness (indoor)*	3 months
Waterfastness	Lamination required

Product numbers	**Sizes**
C7952A	914 mm x 22.9 m
C7953A	1372 mm x 22.9 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye ink supplies.

▲See page 9.

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HP Printing Material for Large Format Printers
Compatibility information

Proofing Papers	HP Designjet Printers	Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30n/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll								Cut Sheet		
																																		18-in roll (A2+/458 mm wide)	A1 roll (594 mm wide)	24-in roll (610 mm wide)	A0 roll (841 mm wide)	36-in roll (914 mm wide)	42-in roll (1067 mm wide)	50-in roll (1270 mm wide)	54-in roll (1372 mm wide)	60-in roll (1524 mm wide)	13-in x 19-in / A3+ (330mm x 483mm)	18-in x 24-in / A2+ (458mm x 610mm)	24-in x 36-in / A1+ (610mm x 914mm)
HP Matte Proofing Paper 146 g/m²-100 sht/30.5 m		•[1]	•[1]	•[1]	•[1]	•[4]	•[4]	•[3]	•	•[2]	•[2]			•			•	•	•	•											•	•		Q7896A		Q1968A							Q1967A		
HP Professional High-gloss Contract Proofing Paper 200g/m²-50 sht/30.5 m					•[1]	•[4]	•[4]		•[2]	•[2]	•[2]			•					•												•	•		Q8664A		Q8663A							Q8662A		
HP Professional Semi-gloss Contract Proofing Paper 235g/m²-50 sht/30.5 m					•[1]		•[4]				•[2]																				•	•						C7952A				C7953A				
HP RC Satin Proofing Paper 200g/m²-22.9 m														•					•	•	•		•		•	•	•		•					Q8049A		Q7971A							Q7970A		

[1] Compatible with A3+/330 mm x 483 mm cut sheet media only
[2] Compatible with cut sheet media and 24" roll (roll feed accessory required)
[3] Compatible with A2+ and smaller cut sheet media
[4] Compatible with 18-in rolls, A2+ and smaller cut sheet media

** Not compatible with HP Designjet 100, Colorpro CAD and Colorpro GA printers

Backlit Materials

Illuminated backlit displays are used in locations such as airports, shopping malls and bus stops. HP offers both dye and UV ink compatible products, including HP Premium Vivid Colour Backlit Film and HP Colourlucent Backlit UV for outdoor and indoor applications, and HP Reverse Print Matte Backlit Film for mounting in a lightbox.

HP Reverse Print Matte Backlit Film 160 g/m^2

HP Premium Vivid Colour Backlit Film 285 g/m^2

HP Colourlucent Backlit UV 205 g/m^2

HP Reverse Print Matte Backlit Film 160 g/m² ▲

HP Reverse Print Matte Backlit Film is a translucent polyester film for sophisticated graphics. Matt on one side and glossy on the other side, HP Reverse Print Matte Backlit Film is designed for flexibility in printing on HP Designjet printers.

Product specifications	
Grammage:	160 g/m² per ISO 536 test method
Thickness/caliper:	5 mil/127 microns per ISO 534 test method
Opacity:	68% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**
Lightfastness (indoor)*	3 months
Waterfastness	Lamination required

Product numbers	**Sizes**
C7960A	914 mm x 22.9 m
C7961A	1372 mm x 22.9 m
C7962A	1524 mm x 22.9 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye ink supplies.

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HP Premium Vivid Colour Backlit Film 285 g/m²

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HP Premium Vivid Colour Backlit Film is a durable, translucent, front-print film that delivers sharp photo quality to create long-lasting, economical images. Ideal for producing brilliant moisture-, smear-, scratch- and fade-resistant displays.

Product specifications	
Grammage:	285 g/m² per ISO 536 Test Method
Thickness/caliper:	8.7 mil/221 microns per ISO 534 Test Method
Opacity:	≥77% per TAPPI T-425 Test Method
Finish:	Matte

Image permanence	**UV**
Lightfastness (indoor commercial window, dye ink)	>1 month (simulated in a light box)** >1 month (unlaminated, not in light box)**
Lightfastness (indoor commercial window, pigment ink)	>4 years (simulated in a light box)* >2 years (unlaminated, not in light box)* >5 years (simulated in a light box)** >3 years (unlaminated, not in light box)**

Product numbers	**Sizes**
Q8747A	914 mm x 30.5 m
Q8748A	1067 mm x 30.5 m
Q8749A	1372 mm x 30.5 m
Q8750A	1524 mm x 30.5 m

*Information provided by HP. Tested on an HP Designjet Z6100 using Original HP 91 Vivera Pigment inks.
**Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Colourlucent Backlit UV 205 g/m²

HP Colourlucent Backlit UV is a durable, translucent, front-print film that delivers sharp photo quality to create long-lasting, economical images. Ideal for producing brilliant moisture-, smear-, scratch- and fade-resistant displays.

Product specifications	
Grammage:	205 g/m² per ISO 536 test method
Thickness/caliper:	6 mil/152 microns per ISO 534 test method
CIE whiteness:	80 per CIE Ganz 82 test method
Opacity:	77% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**UV**
Lightfastness (indoor)*	5 years (in sealed lightbox)
Waterfastness	Water-resistant when printed with HP UV Ink Supplies

Product numbers	**Sizes**
C6778A	914 mm x 30.5 m
C6779A	1372 mm x 30.5 m
C6780A	1524 mm x 30.5 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 83 UV ink supplies

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HP Printing Material for Large Format Printers
Compatibility information

Backlit materials	HP Designjet Printers	Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30n/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll: 18-in roll (A2+/458 mm wide)	Roll: A1 roll (594 mm wide)	Roll: 24-in roll (610 mm wide)	Roll: A0 roll (841 mm wide)	Roll: 36-in roll (914 mm wide)	Roll: 42-in roll (1067 mm wide)	Roll: 50-in roll (1270 mm wide)	Roll: 54-in roll (1372 mm wide)	Roll: 60-in roll (1524 mm wide)	Cut Sheet: 13-in x 19-in / A3+ (330mm x 483mm)	Cut Sheet: 18-in x 24-in / A2+ (458mm x 610mm)	Cut Sheet: 24-in x 36-in / A1+ (610mm x 914mm)
HP Reverse Print Matte Backlit Film 160 g/m²-22.9 m														•					•		•		•		•	•														C7960A			C7961A	C7962A			
HP Premium Vivid Colour Backlit Film 285 g/m²-30.5 m																										•	•	•	•		•								Q8747A	Q8748A		Q8749A	Q8750A			
HP Colourlucent Backlit UV 205 g/m²-30.5 m																						•		•			•		•										C6778A			C6779A	C6780A			

Self-adhesive Materials

HP offers a wide variety of self-adhesive products including vinyl, polypropylene and polyester film. The applications supported range from decal creation with HP Adhesive Vinyl (pressure-sensitive adhesive) to window display graphics creation with the HP Two-view Cling Film.

HP Two-view Cling Film 240 g/m^2

HP Self-adhesive Indoor Paper 170 g/m^2

HP Universal Adhesive Vinyl 290 g/m^2

HP Adhesive Vinyl 328 g/m^2

HP Matte Adhesive-back Polypropylene 225 g/m^2

HP Self-adhesive Gloss Polypropylene 180 g/m^2

HP Two-view Cling Film 240 g/m²

HP Two-view Cling Film, reverse-print translucent adhesive polyester film which is ideal for sophisticated graphics. Matte on one side with a low-tack adhesive glue on the other, it is easily mountable and repositionable on any smooth surface.

Product specifications	
Grammage:	240 g/m²
Thickness/caliper:	9.8 mil/250 microns per ISO 534 test method
CIE whiteness:	64 per CIE Ganz 82 test method
Brightness:	90 per ISO 2469 test method
Opacity:	72 per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**
Lightfastness (indoor)	5 years
Waterfastness	No

Product numbers	**Sizes**
Q1914A	914 mm x 22.9 m
Q1915A	1067 mm x 22.9 m

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HP Self-adhesive Indoor Paper 170 g/m² ▲

HP Self-adhesive Indoor Paper is a high quality white opaque self-adhesive paper with permanent adhesive. The paper's coating makes it perfect for full colour inkjet applications.

Product specifications	
Grammage:	170 g/m² per ISO 536 test method
Thickness/caliper:	7.1 mil/180 microns per ISO 534 test method
CIE whiteness:	95 per CIE Ganz 82 test method
Opacity:	90% (without backing) per TAPPI T-425 test method
Finish:	Matte

Product numbers	**Sizes**
Q1733A	914 mm x 22.9 m
Q1735A	1524 mm x 22.9 m

▲See page 9.

HP Universal Adhesive Vinyl 290 g/m²

An economical, everyday adhesive vinyl ideal for both indoor and outdoor applications. HP Universal Adhesive Vinyl is easy to use and durable for long-lasting, eye-catching displays.

Product specifications	
Grammage:	290 g/m² per ISO 536 test method
Thickness/caliper:	11 mil/280 microns per ISO 534 test method
CIE whiteness:	88 per CIE Ganz 82 test method
Brightness:	97% per TAPPI T-452 test method
Opacity:	85% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**UV**
Lightfastness (indoor)	2.6 years
Lightfastness (commercial window)	Minimum 2 years

Product numbers	**Sizes**
Q8676A	914 mm x 20 m
Q8677A	1067 mm x 20 m

HP Adhesive Vinyl 328 g/m²

HP Adhesive Vinyl is a presentation-quality vinyl with a pressure-sensitive adhesive that sticks where you want it, for as long as you need it – without cracking or peeling. The white-matte finish makes your colours sharp and crisp.

Product specifications	
Grammage:	328 g/m² per ISO 536 test method
Thickness/caliper:	6.2 mil/157 microns (without backing) per ISO 534 test method
Brightness:	94% per TAPPI T-452 test method
Opacity:	92% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	3 months	
Lightfastness (outdoor)*		>3 months
Waterfastness	Water resistant	

Product numbers	**Sizes**
C6775A	914 mm x 12.2 m
C6777A	1372 mm x 12.2 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Matte Adhesive-back Polypropylene 225 g/m² ▲

HP Matte Adhesive-back Polypropylene is a white, matte adhesive polypropylene film with a water-resistant coating and a back prepared
with an acrylate glue and a siliconised film. Ideal for indoor and outdoor signage applications.

Product specifications	
Grammage:	225 g/m² per ISO 536 test method
Thickness/caliper:	8.9 mil/226 microns per ISO 534 test method
CIE whiteness:	80 per CIE Ganz 82 test method
Opacity:	90% (without backing) per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	3 to 6 months	50 years
Waterfastness	Lamination required with dye inks, water-resistant with UV inks	

Product number	**Size**
Q1908A	914 mm x 21 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.
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HP Self-adhesive Gloss Polypropylene 180 g/m²

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HP Self-adhesive Gloss Polypropylene is an easy-to-handle film that produces prints with excellent colour vibrancy for brilliant, photo-realistic images. The engineered glossy coating of this media helps ensure excellent ink-media interaction and the optimum dot gain.

Product specifications	
Grammage:	180 g/m² per ISO 536 Test Method (with liner)
Thickness/caliper:	7.8 mil/198 microns (with liner and glue) per ISO 534 Test Method
CIE whiteness:	≥120 per CIE Ganz 82 Test Method (with liner)
Brightness:	97% per TAPPI T-452 Test Method (with liner)
Opacity:	95% CIE per TAPPI T-425 Test Method
Finish:	Gloss

Product numbers	**Sizes**
Q8834A	914 mm x 22.9
Q8835A	1067 mm x 22.9

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HP Printing Material for Large Format Printers
Compatibility information

Self-adhesive materials	HP Designjet Printers	Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30n/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll: 18-in roll (A2+/458 mm wide)	A1 roll (594 mm wide)	24-in roll (610 mm wide)	A0 roll (841 mm wide)	36-in roll (914 mm wide)	42-in roll (1067 mm wide)	50-in roll (1270 mm wide)	54-in roll (1372 mm wide)	60-in roll (1524 mm wide)	Cut Sheet: 13-in x 19-in / A3+ (330mm x 483mm)	18-in x 24-in / A2+ (458mm x 610mm)	24-in x 36-in / A1+ (610mm x 914mm)
HP Two-view Cling Film 240 g/m²-22.9 m														•					•		•		•				•		•									Q1914A	Q1915A							
HP Self-adhesive Indoor Paper 170 g/m²-22.9 m														•					•	•	•		•		•	•	•		•	•		•	•					Q1733A				Q1735A			
HP Matte Adhesive-back Polypropylene 225 g/m²-21 m														•					•	•	•	•	•	•			•	•	•	•	•	•	•					Q1908A							
HP Universal Adhesive Vinyl 290 g/m²-20 m																									•[1]	•[1]	•[1]	•	•[1]	•	•	•	•					Q8676A	Q8677A							
HP Adhesive Vinyl 328 g/m²-12.2 m														•					•	•[+]	•	•	•	•			•	•	•	•	•	•	•					C6775A			C6777A				
HP Self-adhesive Gloss Polypropylene 180 g/m²-22.9 m																										•	•	•	•	•		•	•					Q8834A	Q8835A							

[1] Lamination required

+ Not compatible when used with the optional multi-roll feeder

Banner and Sign Materials

Banners must be durable, tear-resistant, impervious to rough handling and easy to drape. HP offers a range of materials for indoor and outdoor banners. Select HP Matte Polypropylene with or without adhesive backing for photo-realistic indoor and outdoor display graphics banners.

HP Durable Display Film 205 g/m^2

HP Opaque Scrim 486 g/m^2

HP Matte Polypropylene 130 g/m^2

HP Outdoor Paper 145 g/m^2

HP Outdoor Billboard Blue Back Paper 140 g/m^2

HP Durable Display Film 205 g/m² ▲

HP Durable Display Film is an opaque, white inkjet-compatible coated PET film with a matt finish, designed for pop-up display and roll-up indoor presentation systems. Resistant to stress from rolling and unrolling, which ensures long life.

Product specifications	
Grammage:	205 g/m² per ISO 536 test method
Thickness/caliper:	6.5 mil/165 microns per ISO 534 test method
Brightness:	>92 per X-Rite 938 test method
Opacity:	>99% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**UV**
Lightfastness (indoor)*	3 weeks without lamination, 3 months with protection
Waterfastness	Water-resistant with UV inks

Product numbers	**Sizes**
Q6620A	914 mm x 15.2 m
Q6621A	1270 mm x 15.2 m

*Information provided by HP. Tested on an HP Designjet 5500 printer with HP 81 dye and HP 83 UV ink supplies.

▲See page 9.

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HP Opaque Scrim 486 g/m²

HP Opaque Scrim is a matte, opaque PVC banner with tear-resistant polyester fabric embedded between two white vinyl layers. It is an easy-to-use, high-quality material for banners, decorating and indoor and outdoor signs.

Product specifications	
Grammage:	486 g/m² per ISO 536 test method
Thickness/caliper:	15mil/380 microns per ISO 534 test method
CIE whiteness:	140 per CIE Ganz 82 test method
Brightness:	92% per TAPPI T-452 test method
Opacity:	100% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	1.2 years	>60 years
Lightfastness (commercial window)		15 months
Lightfastness (outdoor)*		2-3 months
Waterfastness	Water-resistant after 24 hours with UV inks, lamination required for dye inks	

Product numbers	**Sizes**
Q1898B	914 mm x 15.2 m
Q1899B	1067 mm x 15.2 m
Q1901B	1372 mm x 15.2 m
Q1902B	1524 mm x 15.2 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Matte Polypropylene 130 g/m² ▲

HP Matte Polypropylene is a sturdy, matt polypropylene film with a water-resistant coating. It delivers brilliant colours and sharp edge definition and is ideal for both indoor and outdoor applications.

Product specifications	
Grammage:	130 g/m² per ISO 536 test method
Thickness/caliper:	7.5 mil/191 microns per ISO 534 test method
CIE whiteness:	98 per CIE Ganz 82 test method
Opacity:	>93% per TAPPI T-425 test method
Finish:	Matte

Image permanence	Dye	UV
Lightfastness (indoor)*	3 months	50 years
Lightfastness (outdoor)*		21 days
Waterfastness	Lamination required with, dye ink, water-resistant with UV ink.	

Product numbers	Sizes
Q1903A	914 mm x 22.9 m
Q1904A	1067 mm x 22.9 m
Q1906A	1372 mm x 22.9 m
Q1907A	1524 mm x 22.9 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Outdoor Paper 145 g/m² ▲

HP Outdoor Paper is a premium quality, white opaque, water-resistant paper with an exceptional inkjet coating that provides very high mechanical and tear strength when wet. Particularly suited for graphic arts applications for outdoor use.

Product specifications	
Grammage:	145 g/m² per ISO 536 test method
Thickness/caliper:	7.5 mil/191 microns per ISO 534 test method
CIE whiteness:	87 per CIE Ganz 82 test method
Opacity:	90% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	Water-resistant with UV ink, but lamination is recommended

Product number	**Size**
Q1730A	914 mm x 30.5 m

▲See page 9.

HP Outdoor Billboard Blue Back Paper 140 g/m² ▲

HP Outdoor Billboard Blue Back Paper is a white, blue back water-resistant billboard paper with high opacity for outside applications. Particularly suitable for graphic arts prints of the highest resolution and perfect colour brilliance.

Product specifications	
Grammage:	140 g/m² per ISO 536 test method
Thickness/caliper:	7.3 mil/185 microns per ISO 534 testing method
CIE whiteness:	83 per CIE Ganz 82 test method
Brightness:	87% per TAPPI T-452 test method
Opacity:	98% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	2 months	1 year
Waterfastness	Lamination required with dye inks, water-resistant with UV inks	

Product numbers	**Sizes**
C7949A	914 mm x 30.5 m
C7950A	1372 mm x 30.5 m

*Information provided by HP. Tested on an HP Designjet 5500 printer with HP 81 dye and HP 83 UV ink supplies.

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HP Printing Material for Large Format Printers
Compatibility information

Banner and sign materials	HP Designjet Printers	Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30n/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll								Cut Sheet		
																																		18-in roll (A2+/458 mm wide)	A1 roll (594 mm wide)	24-in roll (610 mm wide)	A0 roll (841 mm wide)	36-in roll (914 mm wide)	42-in roll (1067 mm wide)	50-in roll (1270 mm wide)	54-in roll (1372 mm wide)	60-in roll (1524 mm wide)	13-in x 19-in / A3+ (330mm x 483mm)	18-in x 24-in / A2+ (458mm x 610mm)	24-in x 36-in / A1+ (610mm x 914mm)
HP Opaque Scrim 486 g/m²-15.2 m														•					•		•	•	•	•	•			•	•	•	•	•					Q1898B	Q1899B		Q1901B	Q1902B			
HP Matte Polypropylene 130 g/m²-22.9 m														•					•	•	•	•	•	•				•	•	•	•		•				Q1903A	Q1904A		Q1906A	Q1907A			
HP Outdoor Paper 145 g/m²-30.5 m														•					•	•	•	•	•	•	•	•	•	•	•	•	•	•					Q1730A							
HP Outdoor Billboard Blue Back Paper 140 g/m²-30.5 m														•					•	•	•	•	•	•	•	•	•	•	•	•	•	•					C7949A			Q7950A				
HP Durable Display Film 205 g/m²/165µm-15.2 m													•	•				•	•	•	•	•	•	•			•	•	•	•	•	•					Q6620A		Q6621A					

Fabric and Textile Materials

Dazzle customers with retail, trade show and short-term display banners using HP media such as HP Paper-backed Silk Satin Fabric, HP Paper-backed Polyester Fabric, HP Cotton Matte Fabric or the tear-resistant HP Durable Flag Fabric. These products add movement to large prints and create a classy look.

HP Durable Flag Fabric 110 g/m^2

HP Cotton Matte Fabric 215 g/m^2

HP Paper-backed Polyester Fabric 110 g/m^2

HP Paper-backed Silk Satin Fabric 63.5 g/m^2

HP Durable Flag Fabric 110 g/m² ▲

HP Durable Flag Fabric is a tear- and weather-proof polyester knitted fabric. It is optimised to resist strong winds and heavy rains, making it an ideal choice for flags.

Product specifications	
Grammage:	110 g/m² per ISO 53854 test method
Thickness/caliper:	6.5 mil/165 microns without backing or 13.8 mil with backing per ISO 534 test method
CIE whiteness:	139 per CIE Ganz 82 test method
Finish:	Matte

Image permanence	**UV**
Lightfastness (indoor)*	12 months
Waterfastness	Yes

Product number	**Size**
Q6624A	914 mm x 10 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 printer with HP 83 UV ink supplies.

▲See page 9.

HP Cotton Matte Fabric 215 g/m² ▲

HP Cotton Matte Fabric is a 100% cotton matt media. It is flame retardant and provides excellent drapability. A versatile media ideal for a wide range of applications, trade show graphics and POS.

Product specifications	
Grammage:	215 g/m² per ISO 536 test method
Thickness/caliper:	15 mil/381 microns per ISO 534 test method
Finish:	Matte

Product numbers	**Sizes**
Q1742A	914 mm x 10 m
Q1743A	1372 mm x 10 m

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HP Paper-backed Polyester Fabric 110 g/m² ▲

HP Paper-backed Polyester Fabric is a 100% polyester knitted media. It is flame retardant and provides excellent drapability. A versatile media ideal for a wide range of applications - banners, curtains, decorations and window displays.

Product specifications	
Grammage:	185 g/m² (with backing), 110 g/m² (without backing) per ISO 536 test method
Thickness/caliper:	11.4 mil/290 microns per ISO 534 test method
Finish:	Matte

Product number	**Size**
Q1745A	914 mm x 10 m

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HP Paper-backed Silk Satin Fabric 63.5 g/m² ▲

HP Paper-backed Silk Satin Fabric is a 100% silk crepe de chine, woven material that drapes in a natural way. Perfect for indoor fashion design and clothing mock-ups, flags, banners and presentation textiles.

Product specifications	
Grammage:	160 g/m² (with backing), 63.5 g/m² (without backing) per ISO 536 test method
Thickness/caliper:	8 mil/203 microns (with backing), 6 mil/152 microns (without backing) per ISO 534 test method
Finish:	Matte

Product number	**Size**
Q1748A	914 mm x 10 m

▲See page 9.

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April 2007

HP Printing Material for Large Format Printers
Compatibility information

Fabric/textile materials	HP Designjet Printers	Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30n/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll								Cut Sheet		
																																		18-in roll (A2+/458 mm wide)	A1 roll (594 mm wide)	24-in roll (610 mm wide)	A0 roll (841 mm wide)	36-in roll (914 mm wide)	42-in roll (1067 mm wide)	50-in roll (1270 mm wide)	54-in roll (1372 mm wide)	60-in roll (1524 mm wide)	13-in x 19-in / A3+ (330mm x 483mm)	18-in x 24-in / A2+ (458mm x 610mm)	24-in x 36-in / A1+ (610mm x 914mm)
HP Cotton Matte Fabric 215 g/m^2-10 m																											•	•	•	•						Q1742A		Q1743A					
HP Paper-backed Polyester Fabric 110 g/m^2 (no backing 110 g/m^2)-10 m																				•	•	•	•	•			•	•		•		•				Q1745A							
HP Paper-backed Silk Satin Fabric 63.5 g/m^2 (no backing 63.5 g/m^2-with backing 160 g/m^2)-10 m																					•		•				•	•		•		•				Q1748A							
HP Durable Flag Fabric 110 g/m^2 (weight without paper backing)-10 m																												•		•		•				Q6624A							

Fine Art Printing Materials

HP Fine Art Papers and Canvas Materials are the perfect choice for the art reproduction professional. With a broad range of colour, texture, thickness, sheen and durability, HP offers everything from HP Collector Satin Canvas to HP Matte Litho-realistic Paper.

HP Collector Satin Canvas 400 g/m^2

HP Professional Matte Canvas 430 g/m^2

HP Artist Matte Canvas 380 g/m^2

HP Universal Matte Canvas 350 g/m^2

HP Hahnemühle Smooth Fine Art Paper 265 g/m^2

HP Hahnemühle Smooth Fine Art Paper 310 g/m^2

HP Hahnemühle Textured Fine Art Paper 265 g/m^2

HP Hahnemühle Textured Fine Art Paper 310 g/m^2

HP Hahnemühle Watercolour Paper 210 g/m^2

HP Aquarella Art Paper 240 g/m^2

HP Canvas Paper 180 g/m^2

HP Matte Litho-realistic Paper 270 g/m^2

HP Collector Satin Canvas 400 g/m²

HP Collector Satin Canvas is ideal for printing museum-quality display prints, sharp black-and-white photographs and collector editions. This heavyweight, natural-white, cotton canvas has a satin finish.

Product specifications	
Grammage:	400 g/m² per ISO 536 test method
Thickness/caliper:	22 mil/559 microns per ISO 534 test method
CIE whiteness:	105 per CIE Ganz 82 test method
Brightness:	85% per TAPPI T-452 test method
Opacity:	>98% per TAPPI T-425 test method
Finish:	Satin

Image permanence	
Lightfastness (indoor)*	200+ years
Waterfastness	Lamination required for water resistance

Product numbers	**Sizes**
Q8708A	610 mm x 6.1 m
Q8709A	914 mm x 15.2 m
Q8710A	1067 mm x 15.2 m
Q8711A	1524 mm x 15.2 m

*Internally Tested at HP. Currently being tested at Wilhelm Imaging Research.

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HP Professional Matte Canvas 430 g/m²

HP Professional Matte Canvas is ideal for printing museum-quality display prints, sharp black-and-white photographs and collector editions. This heavyweight canvas has a smooth, bright-white, matte finish.

Product specifications	
Grammage:	430 g/m² per ISO 536 test method
Thickness/caliper:	22 mil/559 microns per ISO 534 test method
CIE whiteness:	130 per CIE Ganz 82 test method
Brightness:	96% per TAPPI T-452 test method
Opacity:	>98% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Lightfastness (indoor)*	200+ years
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product numbers	**Sizes**
Q8671A	914 mm x 15.2 m
Q8672A	1524 mm x 15.2 m
Q8673A	610 mm x 6.1 m
Q8674A	1067 mm x 15.2 m

*Wilhelm Imaging Research.

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HP Artist Matte Canvas 380 g/m²

HP Artist Matte Canvas is ideal for printing high-quality, fine art reproductions and photographs at an affordable price. This mid-grade artist canvas features a bright-white coating and matte finish.

Product specifications	
Grammage:	380 g/m² per ISO 536 test method
Thickness/caliper:	18 mil/457 microns per ISO 534 test method
CIE whiteness:	120 per CIE Ganz 82 test method
Brightness:	92% per TAPPI T-452 test method
Opacity:	>98% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Lightfastness (indoor)*	200+ years
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product numbers	**Sizes**
Q8704A	610 mm x 6.1 m
Q8705A	914 mm x 15.2 m
Q8706A	1067 mm x 15.2 m
Q8707A	1524 mm x 15.2 m
Q8731A	A3+/330 mm x 483 mm

*Internally tested by HP.

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HP Universal Matte Canvas 350 g/m²

HP Universal Matte Canvas is perfect for printing low-price-point consumer art reproductions. This media is an economical artist stretch canvas that delivers superb quality for price-sensitive applications.

Product specifications	
Grammage:	350 g/m² per ISO 536 test method
Thickness/caliper:	18 mil/457 microns per ISO 534 test method
CIE whiteness:	117 per CIE Ganz 82 test method
Brightness:	92% per TAPPI T-452 test method
Opacity:	>98% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Lightfastness (indoor)*	200+ years
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product numbers	**Sizes**
Q8712A	610 mm x 6.1 m
Q8713A	914 mm x 15.2 m
Q8714A	1067 mm x 15.2 m

*Internally tested by HP.

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HP Hahnemühle Smooth Fine Art Paper 265 g/m² ▲

HP Hahnemühle Smooth Fine Art Paper lets you create museum-quality, archival fine art and photographs with this 100 percent cotton rag paper. This smooth, bright-white paper delivers masterful colour matching with vivid colours and rich blacks.

Product specifications	
Grammage:	265 g/m² per ISO 536 test method
Thickness/caliper:	16.5 mil/420 microns per ISO 534 test method
CIE whiteness:	>75 per CIE Ganz 82 test method
Opacity:	>90% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Lightfastness (indoor)*	200+ years
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product numbers	**Sizes**
Q8732A	610 mm x 10.7 m
Q8733A	1067 mm x 10.7 m
Q8745A	914 mm x 10.7 m
Q8728A	A3+/330 mm x 483 mm

*Wilhelm Imaging Research.

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HP Hahnemühle Smooth Fine Art Paper 310 g/m² ▲

HP Hahnemühle Smooth Fine Art Paper lets you create museum-quality, archival fine art and photographs with this 100 percent cotton rag paper. This smooth, bright-white paper delivers masterful colour matching with vivid colours and rich blacks.

Product specifications	
Grammage:	310 g/m² per ISO 536 test method
Thickness/caliper:	19.5 mil/495 microns per ISO 534 test method
CIE whiteness:	>75 per CIE Ganz 82 test method
Opacity:	>90% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Lightfastness (indoor)*	200+ years
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product numbers	**Sizes**
Q8734A	610 mm x 10.7 m
Q8735A	1067 mm x 10.7 m

*Wilhelm Imaging Research.

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HP Hahnemühle Textured Fine Art Paper 265 g/m² ▲

HP Hahnemühle Textured Fine Art Paper lets you create museum-quality, archival fine art and photographs with this 100 percent cotton rag paper. This textured, bright-white paper delivers masterful colour matching with vivid colours and rich blacks.

Product specifications	
Grammage:	265 g/m² per ISO 536 test method
Thickness/caliper:	21.5 mil/545 microns per ISO 534 test method
CIE whiteness:	>75 per CIE Ganz 82 test method
Opacity:	>95% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product numbers	**Sizes**
Q8736A	610 mm x 10.7 m
Q8737A	914 mm x 10.7 m
Q8738A	1067 mm x 10.7 m

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HP Hahnemühle Textured Fine Art Paper 310 g/m² ▲

HP Hahnemühle Textured Fine Art Paper lets you create museum-quality, archival fine art and photographs with this 100 percent cotton rag paper. This textured, bright-white paper delivers masterful colour matching with vivid colours and rich blacks.

Product specifications	
Grammage:	310 g/m² per ISO 536 test method
Thickness/caliper:	26 mil/660 microns per ISO 534 test method
CIE whiteness:	>75 per CIE Ganz 82 test method
Opacity:	>95% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product numbers	**Sizes**
Q8739A	610 mm x 10.7 m
Q8740A	1067 mm x 10.7 m

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HP Hahnemühle Watercolour Paper 210 g/m² ▲

HP Hahnemühle Watercolour Paper is a high-quality, acid-free paper perfect for professional digital fine art reproduction. The natural white material contains 50% cotton rag content for added strength and durability.

Product specifications	
Grammage:	210 g/m² per ISO 536 test method
Thickness/caliper:	13.4 mil/340 microns per ISO 534 test method
Opacity:	85% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**UV**
Lightfastness (indoor)	200+ years
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product number	**Size**
Q1984A	914 mm x 11.5 m
Q8729A	A3+/330 mm x 483 mm

*Wilhelm Imaging Research.

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HP Aquarella Art Paper 240 g/m² ▲

HP Aquarella Art Paper lets you create gallery-quality, affordable, archival art reproductions and professional business collateral. This textured, matte, warm-white paper has a slightly structured surface that is similar to watercolour paper.

Product specifications	
Grammage:	240 g/m² per ISO 536 test method
Thickness/caliper:	15.9 mil/405 microns per ISO 534 test method
CIE whiteness:	>68 per CIE Ganz 82 test method
Opacity:	>90% per TAPPI T-425 test method
Finish:	Matte

Image permanence	
Lightfastness (indoor)*	200+ years
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product numbers	**Sizes**
Q8741A	610 mm x 10.7 m
Q8746A	914 mm x 10.7 m
Q8730A	A3+/330 mm x 483 mm

*Internally tested by HP

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HP Canvas Paper 180 g/m² ▲

HP Canvas Paper 180 g/m² is an economical matt embossed paper that is specially coated to produce excellent image sharpness. The linen structure is ideal for fine art reproduction or business collateral such as menus, cards or invitations.

Product specifications	
Grammage:	180 g/m² per ISO 536 test method
Thickness/caliper:	10.2 mil/259 microns per ISO 534 test method
CIE whiteness:	110 per CIE Ganz 82 test method
Opacity:	98% per TAPPI T-425 test method
Finish:	Matte

Image permanence	**Dye**	**UV**
Lightfastness (indoor)*	1 month	1 year
Waterfastness	This product is water resistant when using HP Vivera Pigment inks	

Product number	**Size**
Q1724A	914 mm x 10.7 m

*Information provided by HP. Tested on an HP Designjet 5500/5000 series printer with HP 81 dye and HP 83 UV ink supplies.

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HP Matte Litho-realistic Paper 270 g/m²

HP Matte Litho-realistic Paper delivers exceptional print results with the look, feel and longevity of a heavy, matte offset paper. This natural-white paper is perfect for high-quality poster art and other cost-effective art reproductions.

Product specifications	
Grammage:	270 g/m² per ISO 536 test method
Thickness/caliper:	13 mil/330 microns per ISO 534 test method
CIE whiteness:	>75 per ISO 11475 test method
Brightness:	>87% per ISO 2470 test method
Opacity:	>98% per DIN 53146 test method
Finish:	Matte

Image permanence	**UV**
Lightfastness (indoor)*	150+ years
Waterfastness	This product is water resistant when using HP Vivera Pigment inks

Product numbers	**Sizes**
Q7972A	610 mm x 30.5 m
Q7973A	914 mm x 30.5 m

*Internally tested by HP.

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April 2007

HP Printing Material for Large Format Printers
Compatibility information

Fine art printing materials	HP Designjet Printers	Colorpro CAD	Colorpro GA	10ps/20ps/50ps	30/30n/30gp	70	90/90r/90gp	100/100 plus	110/110nr plus	120/120nr	130/130nr/130gp	430/330	488ca/450c/455ca/350c	500/500ps	600	650c/ps	700	750c/750c plus/755cm	800/800ps/copier cc800ps/815mfp	1050c/1050c plus/1055cm/1055cm plus	2800cp/2500cp/2000cp - dye based ink	2800cp/2500cp/2000cp - uv ink	3800cp/3500cp/3000cp - dye based ink	3800cp/3500cp/3000cp - uv ink	4000/4000ps	4500/4500ps	5000/5000ps - dye based ink	5000/5000ps - uv ink	5500/5500ps - dye based ink	5500/5500ps - uv ink	Z2100/Z3100 Photo Printers	Z6100 Printers	T1100/T610 Printers	Roll							Cut Sheet		
																																		18-in roll (A2+/458 mm wide)	A1 roll (594 mm wide)	24-in roll (610 mm wide)	A0 roll (841 mm wide)	36-in roll (914 mm wide)	42-in roll (1067 mm wide)	50-in roll (1270 mm wide)	54-in roll (1372 mm wide)	60-in roll (1524 mm wide)	13-in x 19-in / A3+ (330mm x 483mm)	18-in x 24-in / A2+ (458mm x 610mm)	24-in x 36-in / A1+ (610mm x 914mm)
HP Collector Satin Canvas 400 g/m²-6.1 m/15.2 m																											•	•	•	•	•	•				Q8708A (6.1m)		Q8709A	Q8710A			Q8711A			
HP Professional Matte Canvas 430 g/m²-6.1 m/15.2 m																											•	•	•	•	•	•				Q8673A (6.1m)		Q8671A	Q8674A			Q8672A			
HP Artist Matte Canvas 380 g/m²-25 sht./6.1 m/15.2 m																											•	•	•	•	•	•				Q8704A (6.1m)		Q8705A	Q8706A			Q8707A	Q8731A*		
HP Universal Matte Canvas 350 g/m²-6.1 m/15.2 m																											•	•	•	•	•	•				Q8712A (6.1m)		Q8713A	Q8714A						
HP Canvas Paper 180 g/m²-10.7 m														•					•	•	•		•		•		•	•	•	•	•	•						Q1724A							
HP Matte Litho-realistic Paper 270 g/m²-30.5 m																												•		•	•	•				Q7972A		Q7973A							
HP Hahnemühle Smooth Fine Art Paper 265 g/m²-25 sht./10.7 m																											•	•	•	•	•	•				Q8732A		Q8745A	Q8733A				Q8728A*		
HP Hahnemühle Smooth Fine Art Paper 310 g/m²-10.7 m																															•					Q8734A			Q8735A						
HP Hahnemühle Textured Fine Art Paper 265 g/m²-25 sht./10.7 m																											•	•	•	•	•	•				Q8736A		Q8737A	Q8738A						
HP Hahnemühle Textured Fine Art Paper 310 g/m²-10.7 m																															•					Q8739A			Q8740A						
HP Aquarella Art Paper 240 g/m²-25 sht./10.7 m																											•	•	•	•	•	•				Q8741A		Q8746A					Q8730A*		
HP Hahnemühle Watercolour Paper 210 g/m²-25 sht./11.5 m																											•	•	•	•	•	•						Q1984A						Q8729A*		

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*Not compatible with HP Designjet 5000/5000ps, 5500/5500ps and HP Designjet Z6100 Printer

Glossary

Banding
A print defect that comprises perceived parallel lines in solid or halftone pattern area fills. Blocked nozzles, or nozzles not firing completely straight, or lack of calibration cause this with the result that area fills do not look smooth.

Bleed
Refers to any matter from images to tints and rules that extend beyond the trim marks. Ensure intended matter extends right to the edge of the material when trimmed.

Caliper
Thickness of paper expressed in thousandths of an inch (mils) or millionths of a metre (micrometres).

Chroma
Colourfulness of an area judged as a proportion of the brightness of a similarly illuminated area that appears white.

CIELAB or CIE L*a*b*
The creation of the CIE L*a*b* model, also known as CIELAB came in 1976. In this model, L* defines lightness, a* indicates the red to green value: positive a* values will appear reddish and negative a* values appear greenish. b* denotes the yellow to blue value: positive b* values are yellowish while negative b* values are bluish. All colours of the same lightness lie in a plane and lightness varies vertically.

The really important aspect of this colour space is that it is device independent – completely independent of weather, mood, scanner or printer – and therefore objective. It also matches the processes taking place in the human perception of colour. After the red, green and blue cones have been stimulated, a further processing stage takes place and three sensations are generated:

- a red-green sensation
- a yellow-blue sensation
- a brightness sensation

The CIELAB colour model caters for these three sensations. L*a*b* is perceived colour, i.e., relative to the white point.

Cockle
A warped spot or bulge in the sheet caused by localised expansion of the media during printing and subsequent shrinkage of the media during drying.

Colorimeter
A device that measures colour values of reflected or transmitted light by filtering the red, green and blue colours in a defined manner that closely resembles the process used in the human eye.

Colour management system (CMS)
Input devices (e.g., scanners) see colours differently to output devices (e.g., printers). Hence, a colour management system is used to ensure colour consistency throughout the production process. Typically, this involves creating a colour profile for every device in the process.

Colour profile
A specific description of how any device either sees or produces colour information as referenced by an industry standard IT8 colour target.

Curl
Curvature of a sheet of paper. It is produced by one or more of the following factors: the moisture content of the atmosphere or the sheet; the distribution of moisture throughout the sheet; the orientation of the fibres throughout the sheet; or internal stresses within the sheet.

Density
The darkness of any given material or colourant, which is based on the capacity to absorb or reflect light.

Dithering
A technique for creating more than the basic eight colours (CMYRGBKW) by printing a pattern of various colour inks in close proximity to create the appearance of some other colour or shade. Methods include: Ordered Dither – a type of dithering that uses a regular repeatable of dots from a matrix; Standard Pattern Dither – (3 bit colour/black) pattern (24 bit colour, greyscale) – dots of ink are blended in geometric patterns; Cluster Dither (24 bit colour, greyscale) – dots of ink are blended in clusters; Scatter Dither (24 bit colour, greyscale) – dots of ink are blended randomly.

Dot gain
The amount a dot grows when the paper absorbs ink. This is an expected phenomenon of the printing process. Dot gain can make an image appear darker than it should, and when using colour it can cause unwanted colour shifts. For example, the SWOP standard specifies dot gain to maintain accuracy, repeatability and predictability of result. Dot gain can be measured with a densitometer.

Fade
There are two types of fading: 1. Dark fade – a colour fade in the absence of light exposure, due to a chemical effect. 2. Light fade – a colour fade due to exposure to light.

Gamut
This refers to the range of available colour of a device. A particular colour is either in or out of the gamut of the device. If a colour falls outside of a device's gamut, it cannot be accurately shown on that display or printed on that output device; it is here that we would employ the features of a colour management system. When we quote a gamut figure, it comes from the volume of the colour gamut in the CIELAB colour space. To obtain the figure, Hewlett-Packard plots cyan, magenta, yellow and black patches along with the secondary colours red, green and blue. Their values are measured using a colorimeter or spectrophotometer and plotted in the CIELAB colour space from which a gamut volume can be measured. The higher the value, the greater the gamut

of the device; the more colours produced, the greater the quality of the final output. Typical gamut values are 1200-1500* for photo papers and 1100-1200 for coated papers. The trained eye, e.g., a print service provider, can notice a difference of 30-40 in colour gamut, while the average end-user will notice a difference of 50-80. * This is Munsell Volume, L*a*b* volume: 316 K - 402 K.

Gloss
A measure of the degree to which a coated surface approaches a perfect specular surface or mirror in its ability to reflect light. Gloss contributes to the perception of photo-quality. Hewlett-Packard often uses a Tri-Gloss meter that deflects light at three different angles: 20°, 60° and 85°. For high-gloss papers we use the angle of 20°, for semi-gloss papers we use the angle of 60°, and for coated papers we use the angle of 85°.

Graininess
Any undesired, visible noise or texture in printed areas of text and graphics. In photographs it is the perceived amount of image grain structure.

Halo
A white line around the edge of an image. Produced by inks repelling each other.

ICC
International Colour Consortium. A group of

hardware and software companies dedicated to the development of a specification that is operating system independent and provides the digital imaging, printing and related industries with a data format for defining the colour and reproduction characteristics of devices and their related media.

Lightfast
Used to describe how resistant an imaged print is to fading when exposed to light and especially to sunlight.

Metamerism
Occurs when colours that match under one light source look different under another. Neutral tones may appear greenish, reddish, or bluish at different grey-levels.

Opacity
The "hiding power" of media. A measurement of media's ability to hide a backing material from view. It is expressed as a ratio of reflectance of a single sheet of media when it is backed by two different materials.

Pixel
Short for picture element. When we can produce or measure a range of colours in a defined area we refer to the area, as a pixel. Used in monitor, scanning and printing technology.

RIP
Raster Imaging Processor. Hardware or software that translates electronic file data (such as PostScript) into an array of dots and lines that can be printed.

Scatter dither
(24 bit colour, greyscale) – dots of ink are blended randomly.

Smoothness
When paper is viewed under a microscope, the surface looks like a series of mountains and valleys. On an uncoated paper the "landscape" is rougher than on a corresponding coated paper. The smoothness of a paper will affect the receptivity of the paper to the ink and also how evenly the media will feed through the printing device. To measure how smooth a paper is, we measure the airflow between the paper surface and a measuring head: the rougher the paper surface, the greater the rate of air leakage. This rate is measured in ml/minute on the Bendsten or Sheffield (also known as Hagerty) scale.

i) In this test, an uncoated paper, e.g. Vellum, generates a large airflow.

Uncoated papers generate values between 100-400 ml/min. ii) With a coated or gloss paper airflow can be much reduced. Coated matte papers give results of 30-150 ml/min, and gloss papers 5-30 ml/min. Smoothness can also be measured on the Bekk scale. In this test, however, we measure the length of time it takes for 100 ml of air to leak between the surface of the paper and the measuring head. An uncoated paper will have a smoothness of 3-4 Bekk seconds and a gloss paper of 15-20 Bekk seconds.

Spectrophotometer
A type of colour measurement device used to read wavelenghts of reflected or transmitted light.

Spectral absorption
The selective removal of wavelengths of light (RGB) by inks (CMYK). In this example, white light (100% of red, green and blue) is directed at a purple patch (made from CMYK inks). The inks absorb specific wavelengths of light leaving a different red, green and blue colour combination to travel onwards to the eye and register as "purple".

TIFF
Tagged Image File Format. A standard format for bitmap graphics.

Thermal inkjet printing (T.I.J.)
Thermofluidic printing process in which nothing moves but the ink itself. A tiny heater in a print cartridge vaporizes a thin film of ink, creating a vapor bubble that fills a chamber like a piston to force ink through a nozzle. TIJ was invented by HP in 1979.

Waterfastness
Determined by a test in which 250 ml of distilled water at 23°C is dripped onto a test pattern printed on media held at a 45° angle. A densitometer is then used to measure the delta optical density (OD) between the media and the water drop stain. A lower delta OD is preferred.

Wavelength
Visible light is part of the electromagnetic spectrum that also includes X-rays, ultraviolet, infrared and radio waves. Visible light has a wavelength between 380 and 780 nm.

Whiteness
The TAPPI definition of whiteness is the reflectance values of visible light in the range 400-700 nm. A paper's whiteness can be given in a number of ways and relate to various models used to describe colour. One such figure is the CIE GANZ 82 with 100 being neutral. Lower figures indicate a yellowish tinge and higher figures indicate a bluish tinge. We can also use the brightness (L) or lightness value from the CIELAB model. As whiteness measures across the visible spectrum, some experts prefer it as it more closely corresponds to what the human eye sees.

Whiteness measures the quality of light, and brightness (paper) measures the light volume. The two combinedare what make the images "pop" on the page.

Wicking
Ink spreads along the fibres in the paper, creating a "spider web" effect. Also known as feathering.

Paper size

A4	:	210 mm	x	297 mm
A3	:	297 mm	x	420 mm
A3+	:	330 mm	x	483 mm
B3	:	353 mm	x	500 mm
A2	:	420 mm	x	594 mm
A2+	:	458 mm	x	610 mm
B2	:	500 mm	x	707 mm
A1	:	594 mm	x	841 mm
B1	:	707 mm	x	1000 mm
A0	:	841 mm	x	1189 mm
B0	:	1000 mm	x	1414 mm
B0+	:	1180 mm	x	1580 mm

Lengths

1 mil = 0.001 in. = 0.0254 mm
1 in. = 2.54 cm
1 ft. = 0.3048 m

Roll width

24 in. = 610 mm
36 in. = 914 mm
42 in. = 1067 mm
44 in. = 1118 mm
50 in. = 1270 mm
54 in. = 1372 mm
60 in. = 1524 mm

Weight

1 oz = 28.3495 g
1 lb = 0.453592 kg

Area

1 $in.^2$ = 6.4516 cm^2
1 $ft.^2$ = 0.0929030 m^2
1 $yd.^2$ = 0.8361274 m^2
1 g/m^2 = 0.2660 lbs
1 lb(s) = 3.760 g/m^2

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