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## Technical Data Sheet:

**MATERIAL: FOTO BRILLO UNIVERSAL –165-  
PHOTOGRADE PAPER HP GLOSSY and SATIN**

**REF: FCJ**

**n Material Description**

Mid-weight, high-quality photo-base paper for brilliant, high-contrast, photo-like images. Optimised for Hewlett Packard DesignJet 2000/3000/5000. Double-sided inkjet coating.

**n Applications**

Photograde Paper HP is designed for high-quality output on the large format inkjet printers HP 2000/3000/5000. It provides a very sharp and vibrant output. The paper is coated double-sided, enabling printing on both sides.

The mid-weight RC base is mechanically stable, highly ink-resistant, easy to handle and is easily transported in large format printers. Due to this RC base it is stable against dimensional changes which can occur on some papers where ink is added. It offers excellent image quality for large displays or proofs. Laminated prints are suitable for a wide variety of photographic applications such as point of sales displays, exhibitions, CAD rendering and signage.

**n Printer compatibility**

Photograde Paper HP is designed for the HP 2000/3000/5000 large format printers, using the vendor's (dye-based) inks. If you use other than the vendor's inks, we recommend making a test print to verify compatibility.

**+ Physical properties**

			<b>GLOSS</b>	<b>SATIN</b>
Weigth		g/m <sup>2</sup>	166	166
Caliper		µm	164	164
Opacity		%	95	95
Lab values	L		96	96
	a		0.61	0.61
	b		-1.61	-1.61
Gloss	20°	%	54	3
	60°	%	87	18
	85°	%	93	20
Roughness	Ra	µm	0.41	1.09
	Am	µm	9.41	11.82
	Rz	µm	6.23	9.7
Stiffness	Rm	MN	372	372
	Dm	MN	246	246

**n Printer settings / Ink absorption**

For the best results use the highest quality mode (best) available, e.g. "High Gloss Photo" mode in your printer set-up. If banding occurs check the print heads and/or reduce the printing speed (increase the passes).

When no the profiles are used, it is recommended to check the ink load in combination with the drying characteristics.

**n Image quality**

The Photograde paper HP will produce round, equally sized and sharp-edged dots. Homogeneous colour patches will show no artefacts or colour shifts.

This paper will give the fullest colour saturation possible with the specified inks.

**n Colour calibration**

As with all inkjet papers this product should be calibrated to the printer, when first used, to give the desired colour reproduction. Every time a media is changed, it is necessary to do a new linearization to assure a correct colour output.

**n Handling/Transport**

Photograde HP paper is wound on an industry standard core (50.8 mm/2 inches) with the ink receiving (coated) layer out. Rolls are designed for use in medium humidity conditions (15-25°C/ 60-77°F, at 30-70% RH). Very dry conditions (less than 30% RH) may hamper transport due to curl.

Avoid touching the ink receiving layer if you don't wear cotton or plastic gloves. Keep the paper free of dirt or excessive moisture.

**n Drying**

The drying characteristics are strongly influenced by the ambient temperature and relative humidity. Prior to commercial use it is recommended to do a print test: the prints should neither be piled up nor wound on the take-up spool if they are not completely dry. If drying time is too long, check the media profile you are using as well as the in load and print mode.

**n Light stability**

Direct sunlight and UV will cause visible image deterioration on unprotected paper. We recommend that images subjected to such conditions be laminated or coated with a UV-protective layer.

**n Water resistance**

Photograde Paper HP shows high resistance to smudges and finger prints. Yet, direct contact with water or storage under very high humidity should be avoided. Keep your images in a dry, cool and dark place if long term storage is required.

**n Lamination**

Photograde Papers HP is compatible with hot and cold laminating systems.

Make sure that the print is completely dry before laminating. When rolling-up the laminated print, it is recommended to do it with the image outside.

Neschen cold laminates are compatible with the jet papers and offer a perfect protection against water, scratches and UV.

**n Shelf life**

Under normal conditions (15-25°C/60-77°F, at 30-70% RH) the shelf life of Photograde Paper HP is 2 years. Higher humidity and/or temperature can affect the product performance.

**n Ecology**

The papers and final prints can be handled and disposed of as photographic colour paper or other similar inkjet papers. For treatment of inks, please refer to your printer manual.

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*Information on the above characteristics is based on tests we believe to be reliable. These contain typical values that vary according to different conditions of use. The data are intended only as a source of information and are given without any warranty or liability by CADILLAC PLASTIC, S.A.,. Purchasers should determine by themselves the convenience or not of these materials for their specific purposes or applications.*