Data Sheet HPS Inks

Pigment Inks

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Pigment inks

Conventional print on un-pretreated 100% cotton satin with hot air fixation 3 min at 160 °C

	Yellow PHS 461	Orange PHS 860	Red PHS 561	Magenta PHS 361	Violet PHS 961	Cyan PHS 261	Black PHS 161
Wash test DIN EN ISO 105 C06 - Colour fastness to domestic and commercial laundering							
Acetate	4	4-5	4-5	4-5	4-5	4-5	4-5
Cotton	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Nylon	3-4	4-5	4-5	4-5	4-5	4-5	4-5
Polyester	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Acrylic	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Wool	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Wash test DIN EN ISO 105 E01 - Colour fastness to Water							
Acetate	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Cotton	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Nylon	4	4-5	4-5	4-5	4-5	4-5	4-5
Polyester	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Acrylic	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Wool	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Wash test Wash at 60°C for 90 min.							
Change	3-4	4	3-4	4	4	4	3-4
Appearance Post Wash	Good	Good	Good	Good	Good	Good	Good
Crock test DIN EN ISO 105 X12 10 cl - Colour fastness to rubbing							
Dry	3-4	4-5	4-5	4-5	4-5	4-5	4-5
Wet	3-4	4	3	4	4	3	4
Light fastness Xenon arc DIN EN ISO 105 B02 - Colour fastness to artificial light (Blue Wool Scale)							
10 hrs exposure (underwear)	7-8	7-8	7-8	8	8	8	8
20 hrs exposure (outward)	7-8	7-8	7-8	8	8	8	8
40 hrs exposure (swimwear)	7-8	7-8	7-8	8	8	8	8

Results in actual end use can differ depending on the particular conditions of use.

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High Energy Disperse Inks

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High Energy Disperse Inks

Conventional print on un-pretreated polyester Hollanders flag material 110 g/m2

		Yellow DHS 441	Orange DHS 840	Red DHS 541	Magenta DHS 341	Violet DHS 941	Cyan DHS 241	Grey DHS 041	Black DHS 141
Light Fastness Xenon Arc ISO 105-B02	100% 25%	7 7	7 7	5 4-5	6-7 6-7	7 7	7 6-7	3-4 5-6	5-6 5
Weather Fastness Xenon Arc 300h ISO 105-B04		7	7	3-4	6	6	5	3-4	4
Wash Fastness 60 °C ISO 105-C06-C2S	F PES	5 5	5 5	5 5	5 5	5 5	5 5	4-5 5	4-5 4-5
Acid Perspiration Fastness ISO 105-E04	F PES	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5
Alkali Perspiration Fastness ISO 105-E04	F PES	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5
Fastness to sublimation, 180°C / 30s ISO 105-P01	PES	4-5	4	4-5	4-5	4-5	4	4-5	4-5
Fastness to rubbing wet ISO 105-X12	Wet Dry	5 5	5 5	5 5	5 5	5 5	5 5	5 5	4-5 4-5

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