

DigiPro

Polyester synthetic paper for laser dry toner. High tear resistance, matte, both sides coated.

DESCRIPTION

Polyester film with a matt functional coating on both sides, for toner-based printing systems and offset printing.

PRINTABILITY

The coating is suitable for digital printers, and also produces good results with laser printers and photocopiers. Offset printing is also possible. As with all synthetic products, DigiPro should be tested on individual printing machines before production runs are undertaken.

STORAGE AND USAGE

Store in a dry place at room temperature, away from direct sunlight. After transport and storage in cold rooms, adjust the material to the print room's climate (1 h per cm of roll diameter or stack height). To avoid printing problems due to static charge, the climate should be 20–23 °C at 50–60% relative humidity.

DISPOSAL

Disposal of PermaPaper® does not present special problems. In most circumstances, once printed, incineration with energy recovery is the most environmentally efficient recovery route. It can also be burned in an incinerator with normal refuse, or buried as a relatively inert material in landfill. Disposal should comply with local and national regulations.

TYPICAL VALUES

MD machine direction · TD transverse direction · FS front side · A / J / H variants of grade 75

Property · grade	Unit	Method	50	75	100	125	175	250
PHYSICAL								
Calliper	µm	DIN 53105 · ISO 534	75 ± 6	100 ± 7	125 ± 9	150 ± 10	200 ± 13	275 ± 19
Weight	g/m²	DIN 53104	85 ± 7	120 ± 9	155 ± 11	190 ± 13	265 ± 18	370 ± 25
MECHANICAL								
Tensile strength · MD	N/mm²	ISO 5271 · 5273	150	150 / 140 / 150	150	150	150	150
Tensile strength · TD	N/mm²	ISO 5271 · 5273	180	260 / 150 / 190	190	190	190	170
Elongation at break · MD	%	ISO 5271 · 5273	120	170 / 100 / 150	150	150	150	120
Elongation at break · TD	%	ISO 5271 · 5273	120	110 / 80 / 190	90	90	90	90
THERMAL								
Melt temperature of base film	°C	ASTME 794	250 – 255					
Shrinkage · MD (150 °C, 15 min)	%	DIN 40634	2.8	0.7 / 2.5 / 1.0	1.0	1.0	1.0	2.8
Shrinkage · TD (150 °C, 15 min)	%	DIN 40634	0.8	0.7 / 1.5 / 1.0	1.0	1.0	1.0	1.0
OPTICAL								
Opacity	%	ISO 2471	~ 90	~ 92	~ 94	~ 95	~ 95	~ 95
SURFACE								
Smoothness (Bekk), FS	sec	DIN 53107	> 50					
Printing penetration, FS	1000/mm	IGT W 24	9 – 16					

Food contact. The product has not been assessed against European food contact legislation.

Disclaimer. This data sheet replaces earlier ones. The specification values and above information are according to our current experience. Due to the variety of possible influences during processing and applications of the above mentioned material, which are not within our control, it is advisable for the user to carry out their own tests to determine its fitness for use. Max. value of claims which will be accepted are limited to the value of raw material supplied. As long as there is no contradiction in respect of laws and regulations applicable, any questions in connection with warranty or liability are governed by our General Terms and Conditions of Sale. As we are continuously endeavouring to upgrade the product, we reserve the right to change the specification as and when required.