

Mapal Plastics Maplon Type H Polypropylene Sheet

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Sheet/Thermoforming Grade

Material Notes:

Properties : Good resistance to low temperatures, Moderate stress whitening, Suitable for die cutting, Corona treated on both sides for offset and screen printing. Applications : Stationery, Printing and packaging products, Industrial applications where low temperature resistance is required

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mapal-Plastics-Maplon-Type-H-Polypropylene-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	
Thickness	1000 microns	39.4 mil	
Surface Tension	>= 48 dynes/cm	>= 48 dynes/cm	Special grade can be treated for more than year for offset printing

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	29.0 MPa @Temperature 23.0 Å°C	4210 psi @Temperature 73.4 Å°F	ASTM D638
Film Tensile Strength at Yield, TD	25.0 MPa @Temperature 23.0 Å°C	3630 psi @Temperature 73.4 Å°F	ASTM D638
Film Elongation at Break, MD	>= 200 % @Temperature 23.0 Å°C	>= 200 % @Temperature 73.4 Å°F	ASTM D638
Film Elongation at Break, TD	>= 100 % @Temperature 23.0 Å°C	>= 100 % @Temperature 73.4 Å°F	ASTM D638
Film Elongation at Yield, MD	18 % @Temperature 23.0 Å°C	18 % @Temperature 73.4 Å°F	ASTM D638
Film Elongation at Yield, TD	14 % @Temperature 23.0 Å°C	14 % @Temperature 73.4 Å°F	ASTM D638
Modulus of Elasticity	0.400 GPa @Temperature 23.0 Å°C	58.0 ksi @Temperature 73.4 Å°F	MD/TD; ASTM D638

Mechanical Properties <i>Izod Impact, Notched</i>	3.00 J/cm Metric	5.62 ft-lb/in English	Comments <i>ASTM D256</i>
	@Thickness 3.20 mm, Temperature 0.000 Â°C	@Thickness 0.126 in, Temperature 32.0 Â°F	
	5.00 J/cm	9.37 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	
Dart Drop, Total Energy	2.00 J	1.48 ft-lb	ASTM D1709-85
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	5.50 J	4.06 ft-lb	ASTM D1709-85
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	6.00 J	4.43 ft-lb	ASTM D1709-85
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Dart Drop Total Energy	20.0 J/cm	0.0375 ft-lb/mil	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	55.0 J/cm	0.103 ft-lb/mil	
	@Temperature 0.000 Â°C	@Temperature 32.0 Â°F	
	60.0 J/cm	0.112 ft-lb/mil	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	145 Â°C	293 Â°F	ASTM D1525
Heat Distortion Temperature	85.0 Â°C	185 Â°F	ASTM D648

Descriptive Properties	Value	Comments
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Color Mapal Color Catalogue No. 520002

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