

Mapal Plastics Maplon Type S Polypropylene Sheet

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

Material Notes:

Properties: Low stress whitening, Suitable for die cutting, Corona treated on both sides for offset and screen printingApplications:

Stationery, Packaging, House-hold productsand printed items

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mapal-Plastics-Maplon-Type-S-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	Up to 6 months

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	26.0 MPa @Temperature 23.0 Â°C	3770 psi @Temperature 73.4 Â°F	ASTM D638
Film Tensile Strength at Yield, TD	23.0 MPa @Temperature 23.0 Â°C	3340 psi @Temperature 73.4 Â°F	ASTM D638
Film Elongation at Break, MD	>= 650 % @Temperature 23.0 Â°C	>= 650 % @Temperature 73.4 Â°F	ASTM D638
Film Elongation at Break, TD	>= 300 % @Temperature 23.0 Â°C	>= 300 % @Temperature 73.4 Â°F	ASTM D638
Film Elongation at Yield, MD	23 % @Temperature 23.0 Â°C	23 % @Temperature 73.4 Â°F	ASTM D638
Film Elongation at Yield, TD	19 % @Temperature 23.0 Â°C	19 % @Temperature 73.4 Â°F	ASTM D638
Modulus of Elasticity	0.300 GPa @Temperature 23.0 Â°C	43.5 ksi @Temperature 73.4 Â°F	MD/TD; ASTM D638
	1.00 J/cm	1.87 ft-lb/in	

Izod Impact Notched Mechanical Properties	Metric @Thickness 3.20 mm, Temperature 0.000 Å°C	English @Thickness 0.126 in, Temperature 32.0 Å°F	ASTM D256 Comments
	4.20 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	7.87 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256
Dart Drop, Total Energy	5.50 J @Temperature 23.0 Å°C	4.06 ft-lb @Temperature 73.4 Å°F	ASTM D1709-85
Dart Drop Total Energy	55.0 J/cm @Temperature 23.0 Å°C	0.103 ft-lb/mil @Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	140 Å°C	284 Å°F	ASTM D1525
Heat Distortion Temperature	80.0 Å°C	176 Å°F	ASTM D648

Descriptive Properties	Value	Comments
Color	Mapal Color Catalogue No. 520002	

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