

Mapal Plastics Maplon Type 3G Polypropylene Sheet

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

Material Notes:

Maplon type 3G is a single layer highly polished clear sheets, with anti-blocking properties. Main advantages: High clarity and low haze, Easy to convert due to reduced blocking, High durability, Water and chemical resistance, High heat resistance, Unlimited flex life of integral hinge, Suitable to offset printing with UV or Oxidation inks and can use when food contact needed. Main disadvantages: Low scratch resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mapal-Plastics-Maplon-Type-3G-Polypropylene-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.900 g/cc	0.900 g/cc	
Thickness	500 microns	19.7 mil	
Surface Tension	>= 48 dynes/cm	>= 48 dynes/cm	After 2 months from production

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	30.0 MPa @Temperature 23.0 Å°C	4350 psi @Temperature 73.4 Å°F	ASTM D638
Film Tensile Strength at Yield, TD	29.0 MPa @Temperature 23.0 Å°C	4210 psi @Temperature 73.4 Å°F	ASTM D638
Film Elongation at Break, MD	>= 600 % @Temperature 23.0 Å°C	>= 600 % @Temperature 73.4 Å°F	ASTM D638
Film Elongation at Break, TD	>= 600 % @Temperature 23.0 Å°C	>= 600 % @Temperature 73.4 Å°F	ASTM D638
Film Elongation at Yield, MD	24 % @Temperature 23.0 Å°C	24 % @Temperature 73.4 Å°F	ASTM D638
Film Elongation at Yield, TD	23 % @Temperature 23.0 Å°C	23 % @Temperature 73.4 Å°F	ASTM D638
Modulus of Elasticity	0.280 GPa @Temperature 23.0 Å°C	40.6 ksi @Temperature 73.4 Å°F	MD/TD; ASTM D638

Mechanical Properties	Metric kN/m	English psi	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	136 Å°C	277 Å°F	ASTM D1525
Heat Distortion Temperature	79.0 Å°C	174 Å°F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	<= 11 %	<= 11 %	Values are on 500Åµ thick sheets
Gloss	>= 110 %	>= 110 %	60Å°; ASTM D523
Transmission, Visible	>= 98 %	>= 98 %	Depends on thickness

Descriptive Properties	Value	Comments
Color	Transparent, slightly yellow in bulk	

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