

Mapal Plastics Maplon CFA-HK Polypropylene Sheet

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

Material Notes:

Applications: For use with electrical insulation products. For use when flame retardant and static dissipative properties are required.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mapal-Plastics-Maplon-CFA-HK-Polypropylene-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	
	@Thickness 0.430 mm	@Thickness 0.0169 in	
	1.03 g/cc	1.03 g/cc	
	@Thickness 0.250 mm	@Thickness 0.00984 in	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	20.0 MPa	2900 psi	ASTM D638
	@Thickness 0.430 mm, Temperature 23.0 Â°C	@Thickness 0.0169 in, Temperature 73.4 Â°F	
	20.0 MPa	2900 psi	ASTM D638
	@Thickness 0.250 mm, Temperature 23.0 Â°C	@Thickness 0.00984 in, Temperature 73.4 Â°F	
Film Tensile Strength at Yield, TD	16.0 MPa	2320 psi	ASTM D638
	@Thickness 0.430 mm, Temperature 23.0 Â°C	@Thickness 0.0169 in, Temperature 73.4 Â°F	
	16.0 MPa	2320 psi	ASTM D638
	@Thickness 0.250 mm, Temperature 23.0 Â°C	@Thickness 0.00984 in, Temperature 73.4 Â°F	
Film Elongation at Yield, MD	16 %	16 %	ASTM D638
	@Thickness 0.250 mm, Temperature 23.0 Â°C	@Thickness 0.00984 in, Temperature 73.4 Â°F	
	18 %	18 %	ASTM D638
	@Thickness 0.430 mm, Temperature 23.0 Â°C	@Thickness 0.0169 in, Temperature 73.4 Â°F	
Film Elongation at Yield, TD	9.0 %	9.0 %	ASTM D638
	@Thickness 0.250 mm, Temperature 23.0 Â°C	@Thickness 0.00984 in, Temperature 73.4 Â°F	
	14 %	14 %	ASTM D638

Mechanical Properties	Metric @Thickness 0.430 mm, Temperature 23.0 Â°C	English @Thickness 0.0169 in, Temperature 73.4 Â°F	Comments
Modulus of Elasticity	0.300 GPa	43.5 ksi	TD; ASTM D638
	@Thickness 0.430 mm, Temperature 23.0 Â°C	@Thickness 0.0169 in, Temperature 73.4 Â°F	
	0.350 GPa	50.8 ksi	TD; ASTM D638
	@Thickness 0.250 mm, Temperature 23.0 Â°C	@Thickness 0.00984 in, Temperature 73.4 Â°F	
	0.350 GPa	50.8 ksi	ASTM D638
	@Thickness 0.430 mm, Temperature 23.0 Â°C	@Thickness 0.0169 in, Temperature 73.4 Â°F	
	0.400 GPa	58.0 ksi	ASTM D638
	@Thickness 0.250 mm, Temperature 23.0 Â°C	@Thickness 0.00984 in, Temperature 73.4 Â°F	
Flexural Modulus	1.278 GPa	185.4 ksi	
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -20.0 Â°C	@Thickness 0.126 in, Temperature -4.00 Â°F	
	2.50 J/cm	4.68 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	150 Â°C	302 Â°F	ASTM D1525
	@Thickness 0.430 mm	@Thickness 0.0169 in	
	150 Â°C	302 Â°F	ASTM D1525
	@Thickness 0.250 mm	@Thickness 0.00984 in	
Heat Distortion Temperature	85.0 Â°C	185 Â°F	ASTM 648
	@Thickness 0.430 mm	@Thickness 0.0169 in	
	85.0 Â°C	185 Â°F	ASTM 648
	@Thickness 0.250 mm	@Thickness 0.00984 in	
Flammability, UL94	V-0	V-0	
	@Thickness 0.430 mm	@Thickness 0.0169 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 ohm	1.00e+9 ohm	ASTM D257
	@Thickness 0.430 mm	@Thickness 0.0169 in	
	1.00e+9 ohm	1.00e+9 ohm	ASTM D257
	@Thickness 0.250 mm	@Thickness 0.00984 in	
Dielectric Breakdown	15000 V	15000 V	ASTM D149
	@Thickness 0.250 mm	@Thickness 0.00984 in	
	20000 V	20000 V	ASTM D149
	@Thickness 0.430 mm	@Thickness 0.0169 in	

Descriptive Properties	Value	Comments
Color	Black	

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