

PTS Trilac® ABS-MP1000 Metal Plating Grade ABS Resin

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Plating Grade

Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-Trilac-ABS-MP1000-Metal-Plating-Grade-ABS-Resin.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Melt Flow	23 g/10 min	23 g/10 min	
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Flexural Yield Strength	73.1 MPa	10600 psi	ASTM D790
Flexural Modulus	2.25 GPa	326 ksi	ASTM D790
Izod Impact, Notched	2.94 J/cm	5.51 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	89.0 °C	192 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0625 in	
	HB	HB	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 °C	380 °F	
Middle Barrel Temperature	216 °C	420 °F	
Front Barrel Temperature	232 °C	450 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	218 - 260 °C	422 - 500 °F	Nozzle temp not greater than stock
Mold Temperature	48.9 - 65.6 °C	120 - 150 °F	
Drying Temperature	87.8 - 93.3 °C	190 - 200 °F	
Dry Time	2 - 24 hour	2 - 24 hour	
Injection Pressure	68.9 - 82.7 MPa	10000 - 12000 psi	
Back Pressure	0.689 MPa	100 psi	
Screw Speed	50 - 60 rpm	50 - 60 rpm	

Descriptive Properties	Value	Comments
Injection Fill Speed	Slow to Moderate	

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