

Diamond Polymers ABS 3003 MC

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

Material Notes:

Description: High Heat Plating Grade Information provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ABS-3003-MC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.055 g/cc	1.055 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	1.2 g/10 min	1.2 g/10 min	Procedure A; ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	4.2 g/10 min	4.2 g/10 min	Procedure A Condition I; ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength, Yield	42.46 MPa	6158 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.34 GPa	339 ksi	Procedure B, Test Method I(chs 0.05 in/min); ASTM D790
Izod Impact, Notched	2.83 J/cm	5.30 ft-lb/in	Test Method A (0.125 in bar); ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	83.9 °C	183 °F	0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
	91.1 °C	196 °F	0.25 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
Vicat Softening Point	115 °C	239 °F	0.125 inch, 1 Kg; ASTM D1525

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	220 - 250 °C	428 - 482 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	Higher mold temperature provides a product with excellent surface finishing and less residual stress.

Drying Temperature Processing Properties	80.0 - 85.0 °C Metric	176 - 185 °F English	Comments
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	4.83 - 7.58 MPa	700 - 1100 psi	

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