

Diamond Polymers ABS 3501 GF-20

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled

Material Notes:

Description: Reinforced Grade, 20%Glass FilledInformation provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ABS-3501-GF-20.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955
Melt Flow	0.80 g/10 min	0.80 g/10 min	Procedure A Condition G; ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	3.0 g/10 min	3.0 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
Tensile Strength, Yield	67.6 MPa	9800 psi	chs 2 in/min; ASTM D638
Flexural Modulus	4.43 GPa	642 ksi	Procedure B, Test Method I(chs 0.05 in/min); ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	bar; ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	215 °F	0.125 in bar Annealed 4 hours at 80°C; ASTM D648
Vicat Softening Point	113 °C	236 °F	0.125 inch, 1 Kg; ASTM D1525

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	190 - 250 °C	374 - 482 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	Higher mold temperature provides a product with excellent surface finishing and less residual stress.
Drying Temperature	80.0 - 85.0 °C	176 - 185 °F	
Dry Time	2 - 4 hour	2 - 4 hour	

Processing Properties	Metric	English	Comments
Injection Pressure	4.58 / 7.58 MPa	700 / 1100 psi	

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