

Diamond Polymers ABS 4011 HH

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

Description: Ultra High Heat ABS Information provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-ABS-4011-HH.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	0.20 g/10 min	0.20 g/10 min	Procedure A; ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	1.2 g/10 min	1.2 g/10 min	Procedure A; ASTM D1238
	@Load 5.00 kg, Temperature 265 °C	@Load 11.0 lb, Temperature 509 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength, Yield	46.2 MPa	6700 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.21 GPa	320 ksi	Procedure B, Test Method I (chs 0.05 in/min); ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 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)	122 °C	252 °F	0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
	130 °C	266 °F	0.25 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
Vicat Softening Point	165 °C	329 °F	0.125 inch, 1 Kg; ASTM D1525

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	200 - 250 °C	392 - 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.

Processing Properties	Metric	English	Comments
Drying Temperature	80.0 - 90.0 °C	176 - 194 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	4.83 - 7.58 MPa	700 - 1100 psi	

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