

Diamond Polymers TR 5000 AS/P

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

Material Notes:

Description: Transparent ABS, Antistatic Grade
Information provided by Diamond Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-TR-5000-ASP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	2.4 g/10 min @Load 5.00 kg, Temperature 200 °C	2.4 g/10 min @Load 11.0 lb, Temperature 392 °F	Procedure A Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength, Yield	50.8 MPa	7370 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.76 GPa	400 ksi	Procedure B, Test Method I(chs 0.05 in/min); ASTM D790
Izod Impact, Notched	1.23 J/cm	2.30 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)	65.0 °C	149 °F	0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648
	82.8 °C	181 °F	0.125 in bar Annealed 4 hours at 80°C; ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+11 ohm-cm	<= 1.00e+11 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+11 ohm	1.00e+11 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Middle Barrel Temperature			

Processing Properties	190 - 250 °C Metric	374 - 482 °F English	Comments
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	
Injection Pressure	4.83 - 7.58 MPa	700 - 1100 psi	

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