

Diamond Polymers TR 5000

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

Material Notes:

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

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	2.1 g/10 min @Load 5.00 kg, Temperature 200 °C	2.1 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	48.85 MPa	7085 psi	chs 2 in/min; ASTM D638
Flexural Modulus	2.30 GPa	334 ksi	Procedure B, Test Method I(chs 0.05 in/min); ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 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)	72.8 °C	163 °F	0.125 in bar Unannealed/Conditioned 48 hours at 23°C; ASTM D648

Optical Properties	Metric	English	Comments
Haze	4.2 % @Thickness 3.00 mm	4.2 % @Thickness 0.118 in	ASTM D1003
Transmission, Visible	88 % @Thickness 3.00 mm	88 % @Thickness 0.118 in	ASTM D1003

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.

Processing Properties	Metric15.0 °C	English15 °F	Comments
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	4.83 - 7.58 MPa	700 - 1100 psi	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China