

Polymer Resources TP-IM1 Polybutylene Terephthalate, Low Temperature Impact Modified

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Impact Grade

Material Notes:

Polybutylene Terephthalate, Low Temperature Impact Modified Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-TP-IM1-Polybutylene-Terephthalate-Low-Temperature-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage	0.023 - 0.027 cm/cm	0.023 - 0.027 in/in	ASTM D955
Melt Flow	2.0 - 8.0 g/10 min @Load 2.16 kg, Temperature 250 °C	2.0 - 8.0 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.9 MPa	5500 psi	ASTM D638
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM D638
Flexural Strength	55.8 MPa	8100 psi	ASTM D790
Flexural Modulus	1.78 GPa	258 ksi	ASTM D790
Izod Impact, Notched	7.47 J/cm @Temperature -28.9 °C	14.0 ft-lb/in @Temperature -20.0 °F	ASTM D256
	8.01 J/cm @Temperature 22.8 °C	15.0 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	36.2 J	26.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.9 °C	210 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	48.9 °C	120 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 3.17 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 - 249 °C	450 - 480 °F	
Middle Barrel Temperature	238 - 254 °C	460 - 490 °F	
Front Barrel Temperature	243 - 260 °C	470 - 500 °F	
Melt Temperature	232 - 260 °C	450 - 500 °F	
Mold Temperature	43.3 - 76.7 °C	110 - 170 °F	
Drying Temperature	116 - 121 °C	240 - 250 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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