

Polymer Resources TP-GP1F Polybutylene Terephthalate, General Purpose, FDA-compliant Feedstocks

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Polybutylene Terephthalate, General Purpose, FDA-compliant Feedstocks 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-GP1F-Polybutylene-Terephthalate-General-Purpose-FDA-compliant-Feedstocks.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Linear Mold Shrinkage	0.016 - 0.022 cm/cm	0.016 - 0.022 in/in	ASTM D955
Melt Flow	12 - 25 g/10 min @Load 2.16 kg, Temperature 250 °C	12 - 25 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.3 MPa	7000 psi	ASTM D638
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Flexural Strength	79.3 MPa	11500 psi	ASTM D790
Flexural Modulus	2.31 GPa	335 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 °C	1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	16.9 J	12.5 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	52.8 °C	127 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	
	HB @Thickness 3.17 mm	HB @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	

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