

Polymer Resources TP-FV699 PBT, 10% Glass Reinforced Structural Foam Grade, Low Shrinkage

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

Process: Foam Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Foam grades tested with foamed parts with a 10% weight reduction relative to unfoamed parts. Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-TP-FV699-PBT-10-Glass-Reinforced-Structural-Foam-Grade-Low-Shrinkage.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	4.0 - 12 g/10 min	4.0 - 12 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7100 psi	ASTM D638
Tensile Strength, Yield	49.0 MPa	7100 psi	ASTM D638
Flexural Strength	81.4 MPa	11800 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Unnotched	9.61 J/cm	18.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	113 °C	235 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	238 - 254 °C	460 - 490 °F	
Middle Barrel Temperature	243 - 260 °C	470 - 500 °F	
Front Barrel Temperature	249 - 266 °C	480 - 510 °F	
Melt Temperature	249 - 260 °C	480 - 500 °F	

Mold Temperature Processing Properties	71.1 - 93.3 °C Metric	160 - 200 °F English	Comments
Drying Temperature	82.2 - 121 °C	180 - 250 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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