

PTS 30GFR-BK PBT- Flame Retardant, 30% Glass Filled PBT Black Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-30GFR-BK-PBT-Flame-Retardant-30-Glass-Filled-PBT-Black-Resin.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa @Thickness 3.17 mm	17000 psi @Thickness 0.125 in	ASTM D638
Elongation at Break	3.0 % @Thickness 3.17 mm	3.0 % @Thickness 0.125 in	ASTM D638
Flexural Strength	172 MPa @Thickness 3.17 mm	25000 psi @Thickness 0.125 in	ASTM D790
Flexural Modulus	6.21 GPa @Thickness 3.17 mm	900 ksi @Thickness 0.125 in	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	421 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	202 °C	395 °F	ASTM D648
UL RTI, Electrical	75.0 °C	167 °F	
UL RTI, Mechanical with Impact	75.0 °C	167 °F	
UL RTI, Mechanical without Impact	75.0 °C	167 °F	
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	5VA	5VA	

Thermal Properties	@Thickness 2.50 mm Metric	@Thickness 0.0984 in English	Comments
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