

Shinkong Synthetic Fibers Shinite® F202G30 PBT, 30% Glass Filled, Fire Retardant, Halogen Free

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

Material Notes:

Information from Shinkong Synthetic Fibers Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shinkong-Synthetic-Fibers-Shinite-F202G30-PBT-30-Glass-Filled-Fire-Retardant-Halogen-Free.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0090 cm/cm	0.0050 - 0.0090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	102 MPa	14800 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
Flexural Yield Strength	161 MPa	23300 psi	ASTM D790
Flexural Modulus	8.83 GPa	1280 ksi	ASTM D790
Izod Impact, Notched	0.686 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	1.29 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	4.0	4.0	ASTM D150
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149

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