

Shinkong Synthetic Fibers Shinite® F102G30 PET, 30% Glass Filled, Fire Retardant, Halogen Free

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced , Polyethylene Terephthalate (PET), Glass Fiber Filled, 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-F102G30-PET-30-Glass-Filled-Fire-Retardant-Halogen-Free.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	113 MPa	16400 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	147 MPa	21300 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	0.883 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	1.65 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+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	4.0	4.0	ASTM D150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149

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