

Samyang Tribit® 1500G30 Polybutylene Terephthalate, 30% Glass Reinforced

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

Material Notes:

Characteristics:G/F reinforcedHeat and Impact resistantApplications:AutomotiveConnectorGearOutdoor handleIgnition systemElectronicConnectorGas valveCoil bobbinSwitch caseRelay caseO/A partsAll information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Tribit-1500G30-Polybutylene-Terephthalate-30-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.012 cm/cm @Thickness 3.00 mm	0.0020 - 0.012 in/in @Thickness 0.118 in	ASTM D955
Melt Flow	50 g/10 min @Load 5.00 kg, Temperature 250 °C	50 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	132 MPa	19200 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	196 MPa	28400 psi	ASTM D790
Flexural Modulus	7.85 GPa	1140 ksi	ASTM D790
Izod Impact, Unnotched	1.08 J/cm @Thickness 3.17 mm	2.02 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 µin/in-°F	ASTM D696
Melting Point	226 °C	439 °F	
Deflection Temperature at 0.46 MPa (66 psi)	230 °C	446 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ASTM D648

Thermal Properties Flammability, UL 94	Metric	English	Comments
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.2	3.2	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	130 sec	130 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	
Middle Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	
Front Barrel Temperature	220 - 230 Â°C	428 - 446 Â°F	
Nozzle Temperature	250 - 270 Â°C	482 - 518 Â°F	
Melt Temperature	265 Â°C	509 Â°F	
Drying Temperature	110 - 130 Â°C	230 - 266 Â°F	
Dry Time	4 - 6 hour	4 - 6 hour	
Moisture Content	0.010 - 0.015 %	0.010 - 0.015 %	
Screw Speed	60 - 80 rpm	60 - 80 rpm	

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