

Samyang Tribit® 1551GN15 PBT, Reinforced Flame Retardancy

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Flame Retardant

Material Notes:

Crystallization is fast, formability is excellent and thermal resistance, chemical resistance, electrical properties and abrasion resistance are excellent. 1551GN15 is a reinforced, flame retardant grade. Applications: Connectors (insulation characteristics) Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Tribit-1551GN15-PBT-Reinforced-Flame-Retardancy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Water Absorption	0.080 %	0.080 %	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.012 cm/cm	0.0020 - 0.012 in/in	ASTM D955
Melt Flow	57 g/10 min @Load 2.16 kg, Temperature 250 °C	57 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	88.3 MPa	12800 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	118 MPa	17100 psi	ASTM D790
Flexural Modulus	5.39 GPa	782 ksi	ASTM D790
Izod Impact, Notched	0.294 J/cm @Thickness 3.17 mm	0.551 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
Deflection Temperature at 0.46 MPa (66 psi)	205 °C	401 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.1	3.1	ASTM D150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.020	0.020	ASTM D150
Arc Resistance	120 sec	120 sec	ASTM D495

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