

## Samyang Tribit® 1500GN30 Polybutylene Terephthalate, 30% Glass Reinforced, Flame Retardant

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

### Material Notes:

Characteristics:G/F reinforcedFlame retardantHeat 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-1500GN30-Polybutylene-Terephthalate-30-Glass-Reinforced-Flame-Retardant.php](http://www.lookpolymers.com/polymer_Samyang-Tribit-1500GN30-Polybutylene-Terephthalate-30-Glass-Reinforced-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 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	45 g/10 min @Load 5.00 kg, Temperature 250 °C	45 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	123 MPa	17800 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	172 MPa	24900 psi	ASTM D790
Flexural Modulus	8.04 GPa	1170 ksi	ASTM D790
Izod Impact, Unnotched	0.883 J/cm @Thickness 3.17 mm	1.65 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)	225 °C	437 °F	ASTM D648

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric <small>230 Å°C</small>	English <small>430 Å°F</small>	Comments <small>ASTM D249</small>
Flammability, UL94	V-0  @Thickness 1.59 mm	V-0  @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  @Frequency 1.00e+6 Hz	3.2  @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.016  @Frequency 1.00e+6 Hz	0.016  @Frequency 1.00e+6 Hz	ASTM D150
Arc Resistance	110 sec	110 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 260 Å°C	464 - 500 Å°F	
Middle Barrel Temperature	230 - 250 Å°C	446 - 482 Å°F	
Front Barrel Temperature	220 - 230 Å°C	428 - 446 Å°F	
Nozzle Temperature	250 - 270 Å°C	482 - 518 Å°F	
Melt Temperature	265 Å°C	509 Å°F	
Drying Temperature	110 - 130 Å°C	230 - 266 Å°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	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China

