

## Samyang Tribit<sup>®</sup> 1550GN30 PBT Alloy, 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. 1550GN30 is a reinforced, flame retardant (ALLOY) grade. Applications: Connectors (insulation characteristics) Information provided by Samyang.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samyang-Tribit-1550GN30-PBT-Alloy-Reinforced-Flame-Retardancy.php](http://www.lookpolymers.com/polymer_Samyang-Tribit-1550GN30-PBT-Alloy-Reinforced-Flame-Retardancy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.012 cm/cm	0.0020 - 0.012 in/in	ASTM D955
Melt Flow	48 g/10 min @Load 2.16 kg, Temperature 250 Â°C	48 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	123 MPa	17800 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	147 MPa	21300 psi	ASTM D790
Flexural Modulus	7.16 GPa	1040 ksi	ASTM D790
Izod Impact, Notched	0.588 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	225 Â°C	437 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.710 mm	V-0 @Thickness 0.0280 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
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.016	0.016	ASTM D150
Arc Resistance	110 sec	110 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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