

## Samyang Tribit® 1510 PBT, Middle Viscosity

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

### Material Notes:

Crystallization is fast, formability is excellent and thermal resistance, chemical resistance, electrical properties and abrasion resistance are excellent. 1510 is a middle viscosity grade. Information provided by Samyang.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samyang-Tribit-1510-PBT-Middle-Viscosity.php](http://www.lookpolymers.com/polymer_Samyang-Tribit-1510-PBT-Middle-Viscosity.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
Linear Mold Shrinkage	0.014 - 0.023 cm/cm	0.014 - 0.023 in/in	ASTM D955
Melt Flow	35 g/10 min @Load 2.16 kg, Temperature 235 Â°C	35 g/10 min @Load 4.76 lb, Temperature 455 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength	53.9 MPa	7820 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Flexural Yield Strength	73.5 MPa	10700 psi	ASTM D790
Flexural Modulus	1.96 GPa	284 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	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	155 Â°C	311 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 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	17.0 kV/mm	432 kV/in	ASTM D149
Dissipation Factor	0.020	0.020	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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