

## Samyang Tripet® 2500G45 Polyethylene Terephthalate, 45% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 50% Glass Reinforced

### Material Notes:

TRIPET® has excellent heat resistance, good surface, chemical resistance and high electrical performance. Applications: Coil Bobbin Connector Motor Housing Lamp Housing Relay Base Iron body All information provided by Samyang

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samyang-Tripet-2500G45-Polyethylene-Terephthalate-45-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Samyang-Tripet-2500G45-Polyethylene-Terephthalate-45-Glass-Fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	28 g/10 min	28 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 265 °C	@Load 11.0 lb, Temperature 509 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	191 MPa	27700 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Yield Strength	279 MPa	40500 psi	ASTM D790
Flexural Modulus	9.32 GPa	1350 ksi	ASTM D790
Izod Impact, Unnotched	0.932 J/cm	1.74 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 µin/in-°F	ASTM D696
Melting Point	255 °C	491 °F	
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ASTM D648
Deflection Temperature at 1.8 MPa	230 °C	446 °F	ASTM D648

<small>(264 psi)</small> Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@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	3.9	3.9	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	0.016	0.016	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	125 sec	125 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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