

Samyang Tripet® 2550GN45 Polyethylene Terephthalate, 45% Glass Fiber Reinforced, Flame Retardant (discontinue)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass Fiber Filled, Flame Retardant

Material Notes:

TRIPET® has excellent heat resistance, good surface, chemical resistance and high electrical performance.Applications:Coil

BobbinConnectorMotor HousingLamp HousingRelay Baselon bodyAll information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Tripet-2550GN45-Polyethylene-Terephthalate-45-Glass-Fiber-Reinforced-Flame-Retardant-nbspdiscontinue.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.73 g/cc	1.73 g/cc	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm @Thickness 3.00 mm	0.0020 - 0.0040 in/in @Thickness 0.118 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength, Yield	157 MPa	22800 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Yield Strength	235 MPa	34100 psi	ASTM D790
Flexural Modulus	8.34 GPa	1210 ksi	ASTM D790
Izod Impact, Unnotched	0.834 J/cm @Thickness 3.17 mm	1.56 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	255 °C	491 °F	
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ASTM D648
	V-0	V-0	

Thermal Properties	Metric @ Thickness 1.59 mm	English @ Thickness 0.0625 in	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.017 @Frequency 1.00e+6 Hz	0.017 @Frequency 1.00e+6 Hz	ASTM D150
Arc Resistance	80 sec	80 sec	ASTM D495

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