

Samyang Tribit® 1503 Polybutylene Terephthalate

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

Material Notes:

Characteristics: High flow & processability Applications: Automotive Connector Gear Outdoor handle Ignition system Electronic Connector Gas valve Coil bobbin Switch case Relay case O/A parts All information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Tribit-1503-Polybutylene-Terephthalate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.014 - 0.022 cm/cm @Thickness 3.00 mm	0.014 - 0.022 in/in @Thickness 0.118 in	ASTM D955
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 235 Â°C	16 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, Yield	54.9 MPa	7970 psi	ASTM D638
Elongation at Break	<= 100 %	<= 100 %	ASTM D638
Flexural Yield Strength	80.4 MPa	11700 psi	ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	ASTM D790
Izod Impact, Unnotched	0.686 J/cm @Thickness 3.17 mm	1.29 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
Melting Point	226 Â°C	439 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	165 Â°C	329 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	160 Â°C	320 Â°F	ASTM D648

Thermal Properties Flammability, UL 94	^{Unit} Metric	^{Unit} English	Comments
	@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	3.2	3.2	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	ASTM D149
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 240 Â°C	446 - 464 Â°F	
Middle Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	
Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	
Nozzle Temperature	230 - 240 Â°C	446 - 464 Â°F	
Melt Temperature	245 Â°C	473 Â°F	
Drying Temperature	110 - 130 Â°C	230 - 266 Â°F	
Dry Time	4 - 6 hour	4 - 6 hour	
Moisture Content	0.010 - 0.015 %	0.010 - 0.015 %	
Screw Speed	40 - 60 rpm	40 - 60 rpm	

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