

Samyang Tribit® 1500 Polybutylene Terephthalate

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

Material Notes:

Characteristics:Medium viscosityApplications:AutomotiveConnectorGearOutdoor handleIgnition systemElectronicConnectorGas valveCoil bobbinSwitch caseRelay caseO/A partsAll information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Tribit-1500-Polybutylene-Terephthalate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.014 - 0.023 cm/cm	0.014 - 0.023 in/in	ASTM D955
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	40 g/10 min	40 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 235 Â°C	@Load 4.76 lb, Temperature 455 Â°F	

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	40 %	40 %	ASTM D638
Flexural Yield Strength	83.4 MPa	12100 psi	ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	ASTM D790
Izod Impact, Unnotched	0.686 J/cm	1.29 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

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)	155 Â°C	311 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	165 Â°C	329 Â°F	ASTM D648

Thermal Properties Flammability, UL 94	Metric	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 Å°C	446 - 464 Å°F	
Middle Barrel Temperature	220 - 240 Å°C	428 - 464 Å°F	
Front Barrel Temperature	200 - 220 Å°C	392 - 428 Å°F	
Nozzle Temperature	230 - 240 Å°C	446 - 464 Å°F	
Melt Temperature	245 Å°C	473 Å°F	
Drying Temperature	110 - 130 Å°C	230 - 266 Å°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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