

Samyang Triloy® 170 PC/PBT alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Characteristics: Impact resistant Chemical resistant Dimensional stability Processability Flame retardant Applications: Automotive bumper Automotive outdoor handle All information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triloy-170-PCPBT-alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0070 - 0.012 cm/cm @Thickness 3.00 mm	0.0070 - 0.012 in/in @Thickness 0.118 in	ASTM D955
Melt Flow	13 g/10 min @Load 3.80 kg, Temperature 250 Â°C	13 g/10 min @Load 8.38 lb, Temperature 482 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	130 %	130 %	ASTM D638
Flexural Yield Strength	73.5 MPa	10700 psi	ASTM D790
Flexural Modulus	1.81 GPa	263 ksi	ASTM D790
Izod Impact, Unnotched	7.85 J/cm @Thickness 3.17 mm	14.7 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	83.0 Âµm/m-Â°C	46.1 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	115 Â°C	239 Â°F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+16 ohm-cm	5.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.0	3.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	23.0 kV/mm	584 kV/in	ASTM D149
Dissipation Factor	0.0090	0.0090	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	118 sec	118 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	
Middle Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	
Front Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	
Nozzle Temperature	240 - 250 Â°C	464 - 482 Â°F	
Melt Temperature	240 - 250 Â°C	464 - 482 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
Dry Time	3 - 5 hour	3 - 5 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	
Screw Speed	30 - 80 rpm	30 - 80 rpm	

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