

Beijing Ranger Chem PBT 403 M-G30 Heat Resistant and Environmental Protection Flame Retarding FR PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled , Polybutylene Terephthalate (PBT), Flame Retardant

Material Notes:

Modified PBT Characteristics: Unreinforced grades have abundant strength and flexibility, and have strong characteristics against brittleness. UL-certified slow-burning (94HB) and self-extinguishing grades (94V-0, V-2) exist, and electrical properties exhibited are the highest of any thermoplastic. Low water absorption is exhibited, and excellent electrical properties (CTI and GWIT) are retained over extended periods of usages, even with widely varied temperature and humidity conditions. The surface of molded products is smooth, and a low coefficient of friction is exhibited. As the amount of friction is low, PBT is suitable for use in application requiring friction and wear properties. The material is exceptionally reliable, with small in-use dimensional variation, and superior molding stability and dimensional precision. Long-term chemical resistance is exceptional, and at room temperature, there is almost no degradation in properties after. Both unreinforced and reinforced grades exhibit exceptional flowability, and excellent processability. Application: VCD drive frames Connectors Trimmers Switch buttons for gas-fired instantaneous water heaters Relay blocks Driers Rectifiers Outer handles Height sensor cases Door mirror stays Drive component housings Energy saving lamp. Information provided by Beijing Ranger Chemical Co.

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http://www.lookpolymers.com/polymer_Beijing-Ranger-Chem-PBT-403-M-G30-Heat-Resistant-and-Environmental-Protection-Flame-Retarding-FR-PBT.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	ASTM D792
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Moisture Absorption at Equilibrium	0.050 %	0.050 %	ASTM D570
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ASTM D256
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94 (264 psi)	V-0 200 °C	V-0 400 °F	ASTM D943
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+16 ohm-cm @Thickness 2.00 mm	1.30e+16 ohm-cm @Thickness 0.0787 in	ASTM D257
Dielectric Constant	3.2 @Frequency 50.0 Hz	3.2 @Frequency 50.0 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm @Thickness 2.00 mm	508 kV/in @Thickness 0.0787 in	ASTM D149
Dielectric Loss Index	0.020 @Frequency 50.0 Hz	0.020 @Frequency 50.0 Hz	Tangent; ASTM D150

Processing Properties	Metric	English	Comments
Nozzle Temperature	240 °C	464 °F	
Melt Temperature	225 - 250 °C	437 - 482 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Injection Pressure	80.0 - 120 MPa	11600 - 17400 psi	
Back Pressure	8.00 - 18.0 MPa	1160 - 2610 psi	
Screw Speed	<= 100 rpm	<= 100 rpm	

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