

Kingfa PBT-R0N Flame Retardant PBT

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

Material Notes:

Features: Flame retardant Good chemical resistance Outstanding surface Easy processing High impact Applications: Injection

molding Connectors, terminal blocks Relay, switch Bobbins Plugs E & E parts Information Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-PBT-R0N-Flame-Retardant-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc @Temperature 23.0 Â°C	1.43 g/cc @Temperature 73.4 Â°F	ASTM D792
Water Absorption	0.060 % @Temperature 23.0 Â°C, Time 86400 sec	0.060 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.012 - 0.014 cm/cm @Temperature 23.0 Â°C	0.012 - 0.014 in/in @Temperature 73.4 Â°F	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	50.0 MPa	7250 psi	10mm/min; ASTM D638
Elongation at Break	25 %	25 %	10mm/min; ASTM D638
Flexural Strength	65.0 MPa	9430 psi	2mm/min; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	2mm/min; ASTM D790
Izod Impact, Notched	0.650 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.22 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	162 Â°C @Thickness 6.40 mm	324 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 Â°C @Thickness 6.40 mm	145 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	<= 270 Â°C	<= 518 Â°F	
Rear Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Start Point: 230Â°C
Middle Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	Start Point: 240Â°C
Front Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	Start Point: 250Â°C
Melt Temperature	240 - 260 Â°C	464 - 500 Â°F	Start Point: 250Â°C
Mold Temperature	50.0 - 80.0 Â°C	122 - 176 Â°F	Start Point: 60Â°C
Drying Temperature	120 - 140 Â°C @Time 10800 - 18000 sec	248 - 284 Â°F @Time 3.00 - 5.00 hour	Pre-dry

Descriptive Properties	Value	Comments
Injection Speed	Moderate to High	

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