

Kingfa PBT-RG20 Flame Retardant, 20% Glass Fiber Reinforced PBT

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

Material Notes:

Features: Flame retardant High strength High temperature properties Outstanding electrical properties Good heat

resistance Applications: Injection molding Connectors Relay 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-RG20-Flame-Retardant-20-Glass-Fiber-Reinforced-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Water Absorption	0.070 %	0.070 %	ASTM D570
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Linear Mold Shrinkage	0.0040 - 0.010 cm/cm	0.0040 - 0.010 in/in	ASTM D955
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	105 MPa	15200 psi	10mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	10mm/min; ASTM D638
Flexural Strength	155 MPa	22500 psi	2mm/min; ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	2mm/min; ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	216 Â°C	421 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C	406 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties Flammability, UL 94	^{V-0} Metric	^{V-0} English	Comments
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 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	<= 265 Â°C	<= 509 Â°F	
Rear Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Start Point: 235Â°C
Middle Barrel Temperature	235 - 255 Â°C	455 - 491 Â°F	Start Point: 245Â°C
Front Barrel Temperature	240 - 265 Â°C	464 - 509 Â°F	Start Point: 255Â°C
Melt Temperature	240 - 260 Â°C	464 - 500 Â°F	Start Point: 250Â°C
Mold Temperature	50.0 - 70.0 Â°C	122 - 158 Â°F	Start Point: 60Â°C
Drying Temperature	120 - 140 Â°C @Time 14400 - 21600 sec	248 - 284 Â°F @Time 4.00 - 6.00 hour	Pre-dry

Descriptive Properties	Value	Comments
Glass Fiber Content (%)	20	
Injection Speed	Moderate to High	

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