

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

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass Fiber Filled, Flame Retardant

Material Notes:

Features: Flame retardant High strength Good heat resistance Outstanding electrical properties Applications: Injection molding Connectors Relay Bobbins Sockets E & E parts Information Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-PET-RG20-Flame-Retardant-20-Glass-Fiber-Reinforced-PET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 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	0.0020 - 0.010 cm/cm	0.0020 - 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	123 MPa	17800 psi	10mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	10mm/min; ASTM D638
Flexural Strength	175 MPa	25400 psi	2mm/min; ASTM D790
Flexural Modulus	7.50 GPa	1090 ksi	2mm/min; ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 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)	235 Â°C	455 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties Flammability, UL94	^{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	235 - 255 Â°C	455 - 491 Â°F	Start Point: 245Â°C
Middle Barrel Temperature	245 - 265 Â°C	473 - 509 Â°F	Start Point: 250Â°C
Front Barrel Temperature	255 - 275 Â°C	491 - 527 Â°F	Start Point: 260Â°C
Melt Temperature	255 - 275 Â°C	491 - 527 Â°F	Start Point: 260Â°C
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	Start Point: 100Â°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
Glass Fiber Content (%)	20	
Injection Speed	Moderate to High	

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