

Kingfa PA6-RG30 Flame Retardant, 30% Glass Fiber Reinforced PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Fiber Filled, Flame Retardant

Material Notes:

Features:Flame retardantHigh strengthHigh temperature propertiesGood electric propertiesApplications:Injection moldingConnectorsRelayBobbinsPlugsInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-PA6-RG30-Flame-Retardant-30-Glass-Fiber-Reinforced-PA6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc @Temperature 23.0 Â°C	1.52 g/cc @Temperature 73.4 Â°F	ASTM D792
Water Absorption	0.60 % @Temperature 23.0 Â°C, Time 86400 sec	0.60 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0090 cm/cm @Temperature 23.0 Â°C	0.0040 - 0.0090 in/in @Temperature 73.4 Â°F	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	145 MPa	21000 psi	10mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	10mm/min; ASTM D638
Flexural Strength	210 MPa	30500 psi	2mm/min; ASTM D790
Flexural Modulus	8.50 GPa	1230 ksi	2mm/min; ASTM D790
Izod Impact, Notched	1.15 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	2.15 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)	220 Â°C @Thickness 6.40 mm	428 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	215 Â°C @Thickness 6.40 mm	419 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 0.900 mm	@Thickness 0.0354 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	<= 300 Â°C	<= 572 Â°F	
Rear Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Start Point: 235Â°C
Middle Barrel Temperature	240 - 260 Â°C	464 - 500 Â°F	Start Point: 255Â°C
Front Barrel Temperature	255 - 275 Â°C	491 - 527 Â°F	Start Point: 265Â°C
Melt Temperature	250 - 270 Â°C	482 - 518 Â°F	Start Point: 265Â°C
Mold Temperature	30.0 - 60.0 Â°C	86.0 - 140 Â°F	Start Point: 50Â°C
Drying Temperature	90.0 - 110 Â°C @Time 14400 - 21600 sec	194 - 230 Â°F @Time 4.00 - 6.00 hour	Pre-dry

Descriptive Properties	Value	Comments
Glass Fiber Content (%)	30	
Injection Speed	Moderate to High	

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