

Kingfa JH720 G15 15% Glass Fiber Reinforced PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Features:Excellent balance propertiesHigh mechanical propertiesHigh stiffnessGood size stabilityGood surfaceApplications:Imaging equipment shellOA body frameElectrical equipmentComputer plug partsInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-JH720-G15-15-Glass-Fiber-Reinforced-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc @Temperature 23.0 Å°C	1.26 g/cc @Temperature 73.4 Å°F	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm @Temperature 23.0 Å°C	0.0030 - 0.0050 in/in @Temperature 73.4 Å°F	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	ASTM D785
Tensile Strength at Break	85.0 MPa	12300 psi	10mm/min; ASTM D638
Elongation at Break	8.0 %	8.0 %	10mm/min; ASTM D638
Flexural Strength	129 MPa	18700 psi	2mm/min; ASTM D790
Flexural Modulus	5.40 GPa	783 ksi	2mm/min; ASTM D790
Izod Impact, Notched	1.10 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	2.06 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256
Izod Impact, Unnotched	5.80 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	10.9 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	142 Å°C @Thickness 3.20 mm	288 Å°F @Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 Å°C @Thickness 3.20 mm	280 Å°F @Thickness 0.126 in	ASTM D648
	HB	HB	

Thermal Properties	Metric	English	Comments
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	@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
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Strength	22.0 kV/mm	559 kV/in	1.6mm; ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 295 Â°C	<= 563 Â°F	
Rear Barrel Temperature	250 - 275 Â°C	482 - 527 Â°F	Start Point: 260Â°C
Middle Barrel Temperature	265 - 285 Â°C	509 - 545 Â°F	Start Point: 270Â°C
Front Barrel Temperature	270 - 290 Â°C	518 - 554 Â°F	Start Point: 275Â°C
Melt Temperature	255 - 280 Â°C	491 - 536 Â°F	Start Point: 260Â°C
Mold Temperature	90.0 - 140 Â°C	194 - 284 Â°F	Start Point: 100Â°C
Drying Temperature	110 - 120 Â°C @Time 10800 - 14400 sec	230 - 248 Â°F @Time 3.00 - 4.00 hour	Pre-dry
Back Pressure	0.300 - 1.00 MPa	43.5 - 145 psi	

Descriptive Properties	Value	Comments
Glass Fiber Content (%)	15	
Injection Speed	60-90%	

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