

Kingfa JH720 G50 50% Glass Fiber Reinforced PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 50% Glass Filled

Material Notes:

Features:Excellent balance propertiesSuper high stiffnessHigh hardnessGood size stabilitySuper high mechanical

strengthApplications: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-G50-50-Glass-Fiber-Reinforced-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ASTM D785
Tensile Strength at Break	125 MPa	18100 psi	10mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	10mm/min; ASTM D638
Flexural Strength	170 MPa	24700 psi	2mm/min; ASTM D790
Flexural Modulus	12.0 GPa	1740 ksi	2mm/min; ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	
Izod Impact, Unnotched	5.90 J/cm	11.1 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	150 Å°C	302 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	142 Å°C	288 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@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	240 - 280 Â°C	464 - 536 Â°F	Start Point: 265Â°C
Middle Barrel Temperature	250 - 290 Â°C	482 - 554 Â°F	Start Point: 275Â°C
Front Barrel Temperature	260 - 295 Â°C	500 - 563 Â°F	Start Point: 280Â°C
Melt Temperature	250 - 280 Â°C	482 - 536 Â°F	Start Point: 270Â°C
Mold Temperature	100 - 140 Â°C	212 - 284 Â°F	Start Point: 110Â°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 (%)	50	
Injection Speed	60-90%	

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