

Kingfa JH710 G20 Flame Retardant & 20% Glass Fiber Reinforced PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Glass Fiber Filled, Flame Retardant

Material Notes:

Features: Environmental friendly flame retardant UL V-0 @ 1.6mm High mechanical strength Good size stability, good surface Suitable for exact molding Applications: CD-ROM, DVD Printer, photocopier cabinet Scanner parts Exact mechanism parts Electrical equipment parts Information Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-JH710-G20-Flame-Retardant-20-Glass-Fiber-Reinforced-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Linear Mold Shrinkage	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	ASTM D785
Tensile Strength at Break	96.0 MPa	13900 psi	10mm/min; ASTM D638
Elongation at Break	7.0 %	7.0 %	10mm/min; ASTM D638
Flexural Strength	141 MPa	20500 psi	2mm/min; ASTM D790
Flexural Modulus	6.20 GPa	899 ksi	2mm/min; ASTM D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -30.0 Å°C	@Thickness 0.126 in, Temperature -22.0 Å°F	
	0.980 J/cm	1.84 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)	146 Å°C	295 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	132 Å°C	270 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 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
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 290 Â°C	<= 554 Â°F	
Rear Barrel Temperature	230 - 260 Â°C	446 - 500 Â°F	Start Point: 245Â°C
Middle Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Start Point: 250Â°C
Front Barrel Temperature	250 - 280 Â°C	482 - 536 Â°F	Start Point: 255Â°C
Melt Temperature	235 - 270 Â°C	455 - 518 Â°F	Start Point: 250Â°C
Mold Temperature	90.0 - 130 Â°C	194 - 266 Â°F	Start Point: 100Â°C
Drying Temperature	110 Â°C @Time 10800 - 14400 sec	230 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 (%)	20	
Injection Speed	60-80%	

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