

Kingfa JH710 G30 Flame Retardant & 30% 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-G30-Flame-Retardant-30-Glass-Fiber-Reinforced-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	86	86	ASTM D785
Tensile Strength at Break	115 MPa	16700 psi	10mm/min; ASTM D638
Elongation at Break	7.0 %	7.0 %	10mm/min; ASTM D638
Flexural Strength	170 MPa	24700 psi	2mm/min; ASTM D790
Flexural Modulus	8.90 GPa	1290 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	
	1.02 J/cm	1.91 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)	148 Å°C	298 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	134 Å°C	273 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 2.80 mm	@Thickness 0.110 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	1.6mm; ASTM D149

Processing Properties	Metric	English	Comments
Processing Temperature	<= 295 Â°C	<= 563 Â°F	
Rear Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Start Point: 255Â°C
Middle Barrel Temperature	260 - 280 Â°C	500 - 536 Â°F	Start Point: 265Â°C
Front Barrel Temperature	270 - 290 Â°C	518 - 554 Â°F	Start Point: 275Â°C
Melt Temperature	250 - 280 Â°C	482 - 536 Â°F	Start Point: 260Â°C
Mold Temperature	80.0 - 130 Â°C	176 - 266 Â°F	Start Point: 100Â°C
Drying Temperature	100 - 120 Â°C @Time 10800 - 14400 sec	212 - 248 Â°F @Time 3.00 - 4.00 hour	Pre-dry
Back Pressure	0.300 - 0.700 MPa	43.5 - 102 psi	

Descriptive Properties	Value	Comments
Glass Fiber Content (%)	30	
Injection Speed	60-90%	

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