

# Kingfa JH720 G10D

Polycarbonate Alloy

Kingfa

Message:

Kingfa JH720 G10D is a polycarbonate alloy (PC alloy) material, which contains a 10% glass fiber reinforced material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of Kingfa JH720 G10D are:

- flame retardant/rated flame
- high strength
- Good processability
- anti-warping
- beautiful

Typical application areas include:

- Electrical/electronic applications
- printing applications

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	High strength		
	Bending resistance		
	Workability, good		
	Excellent appearance		
Uses	Electrical components		
	Printing press		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (23°C)	0.30 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	54.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	18	%	ASTM D638
Flexural Modulus <sup>3</sup>	2960	MPa	ASTM D790
Flexural Strength <sup>4</sup>	94.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	130	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, unannealed, 6.40mm	128	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	120	°C	ASTM D648
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
1.60 mm	HB		UL 94
3.00 mm	HB		UL 94
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	110 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	240 - 275	°C	
Middle Temperature	245 - 280	°C	
Front Temperature	250 - 290	°C	
Processing (Melt) Temp	245 - 270	°C	
Mold Temperature	80.0 - 130	°C	
Back Pressure	0.400 - 1.00	MPa	
<b>Injection instructions</b>			
Processing Temperature Limit: 290°C Injection Speed: 60 to 90%			
<b>NOTE</b>			
1.	10 mm/min		
2.	10 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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#### Recommended distributors for this material

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