

Kingfa JH720 G50

Polycarbonate Alloy

Kingfa

Message:

Kingfa JH720 G50 is a polycarbonate alloy (PC alloy) material, which contains a 50% 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 G50 are:

flame retardant/rated flame

high strength

high hardness

The typical application fields of Kingfa JH720 G50 are: electrical/electronic applications

General Information			
UL YellowCard	E171666-225743	E171666-225744	E171666-564142
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Features	High strength		
	High hardness		
Uses	Computer components		
	Electrical/Electronic Applications		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.10 - 0.20	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	88		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	125	MPa	ASTM D638
Tensile Elongation ² (Break)	5.0	%	ASTM D638
Flexural Modulus ³	12000	MPa	ASTM D790
Flexural Strength ⁴	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	150	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	142	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257

Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	22	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		UL 94
3.00 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	240 - 280	°C	
Middle Temperature	250 - 290	°C	
Front Temperature	260 - 295	°C	
Processing (Melt) Temp	250 - 280	°C	
Mold Temperature	100 - 140	°C	
Back Pressure	0.300 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 295°C Injection Speed: 60 to 90%			
NOTE			
1.	10 mm/min		
2.	10 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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