

Kingfa JH710 G30

Polycarbonate Alloy

Kingfa

Message:

Kingfa JH710 G30 is a polycarbonate alloy (PC alloy) material, which contains a 30% 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 JH710 G30 are:

- flame retardant/rated flame
- Flame Retardant
- high strength
- beautiful

Typical application areas include:

- Electrical/electronic applications
- printing applications

General Information			
UL YellowCard	E171666-564142		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	High strength		
	Excellent appearance		
	Flame retardancy		
Uses	Electrical components		
	Printing press		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.20 - 0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	115	MPa	ASTM D638
Tensile Elongation ² (Break)	7.0	%	ASTM D638
Flexural Modulus ³	8900	MPa	ASTM D790
Flexural Strength ⁴	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	90	J/m	ASTM D256
23°C, 3.20 mm	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, unannealed, 6.40mm	148	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	134	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (1.60 mm)	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
2.80 mm	V-0		UL 94
3.00 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	240 - 270	°C	
Middle Temperature	260 - 280	°C	
Front Temperature	270 - 290	°C	
Processing (Melt) Temp	250 - 280	°C	
Mold Temperature	80.0 - 130	°C	
Back Pressure	0.300 - 0.700	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

