

Kingfa JH-R0G30

Polycarbonate + ABS

Kingfa

Message:

Kingfa JH-R0G30 is a polycarbonate + acrylonitrile butadiene styrene (PC + ABS) 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 JH-R0G30 are:

- flame retardant/rated flame
- High stiffness
- Good processability

The typical application field of Kingfa JH-R0G30 is: automotive industry

General Information			
UL YellowCard	E171666-225751		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Rigidity, high		
	Workability, good		
Uses	Car dashboard		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.20 - 0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	108	MPa	ASTM D638
Tensile Elongation ² (Break)	6.0	%	ASTM D638
Flexural Modulus ³	9300	MPa	ASTM D790
Flexural Strength ⁴	148	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	85	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	380	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	115	°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)	29	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	220 - 240	°C	
Middle Temperature	225 - 240	°C	
Front Temperature	240 - 250	°C	
Processing (Melt) Temp	230 - 250	°C	
Mold Temperature	80.0 - 110	°C	
Back Pressure	0.00 - 1.00	MPa	
Injection instructions			
Processing Temperature Limit: 255°C Injection Speed: 50 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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