

Kingfa GFPP-L40

Polypropylene

Kingfa

Message:

Kingfa GFPP-L40 is a polypropylene material containing 40% long glass fibers. This product is available in the Asia-Pacific region and is processed by injection molding.

The main features of Kingfa GFPP-L40 are:

- flame retardant/rated flame
- anti-warping
- Good dimensional stability
- beautiful
- Heat resistance

Typical application areas include:

- electrical appliances
- engineering/industrial accessories
- home apps
- Automotive Industry

General Information			
UL YellowCard	E171666-225755		
Filler / Reinforcement	Long glass fiber, 40% filler by weight		
Features	Good dimensional stability		
	Low warpage		
	Heat resistance, high		
	Excellent appearance		
Uses	Components		
	Home appliance components		
	Household goods		
	Application in Automobile Field		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Spiral Flow ¹	60.0	cm	
Molding Shrinkage			Internal method
Vertical flow direction	0.20	%	Internal method
Flow direction	0.10	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	118	MPa	ISO 527-2/10
Tensile Strain (Break)	2.5	%	ISO 527-2/10
Flexural Modulus ²	7400	MPa	ISO 178

Flexural Stress ³	168	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm span	162	°C	ISO 75-2/B
1.8 MPa, not annealed	157	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Glass Fiber Length	1.00 - 1.20	cm	Internal method
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0	hr	
Rear Temperature	210 - 230	°C	
Middle Temperature	240 - 260	°C	
Front Temperature	220 - 240	°C	
Processing (Melt) Temp	230 - 250	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Processing Temp. Limit: 270°C			
NOTE			
1.	Melt temperature: 250°C		
2.	2.0 mm/min		
3.	2.0 mm/min		

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