

Kingfa GFPP-L20

Polypropylene

Kingfa

Message:

Kingfa GFPP-L20 is a polypropylene material containing 20% long glass fibers. This product is available in the Asia-Pacific region and is processed by injection molding.

The main features of Kingfa GFPP-L20 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, 20% 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	1.05	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.40	%	Internal method
Flow direction	0.30	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	85.0	MPa	ISO 527-2/10
Tensile Strain (Break)	3.7	%	ISO 527-2/10
Flexural Modulus ¹	4200	MPa	ISO 178
Flexural Stress ²	120	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm span	158	°C	ISO 75-2/B
1.8 MPa, not annealed	147	°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
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0	hr	
Rear Temperature	210 - 230	°C	
Middle Temperature	230 - 250	°C	
Front Temperature	240 - 260	°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.	2.0 mm/min		
2.	2.0 mm/min		

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