

Kingfa PA6-G15

Polyamide 6

Kingfa

Message:

Kingfa PA6-G15 is a polyamide 6 (nylon 6) material, which contains a 15% 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 PA6-G15 are:

- flame retardant/rated flame
- anti-warping
- beautiful
- Impact resistance

Typical application areas include:

- Automotive Industry
- electrical appliances
- Tools
- Sporting goods

General Information			
UL YellowCard	E171666-225722		
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Bending resistance		
	Low temperature impact resistance		
	Excellent appearance		
Uses	Electrical appliances		
	Power/other tools		
	Application in Automobile Field		
	Sporting goods		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 23°C	0.60	%	ASTM D955
Transverse flow: 23°C	1.2	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	125	MPa	ASTM D638
Tensile Elongation ² (Break)	4.1	%	ASTM D638
Flexural Modulus ³	5760	MPa	ASTM D790
Flexural Strength ⁴	175	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	95	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	215	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	207	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 110	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	225 - 245	°C	
Middle Temperature	250 - 270	°C	
Front Temperature	260 - 280	°C	
Processing (Melt) Temp	255 - 285	°C	
Mold Temperature	50.0 - 70.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Processing Temperature Limit: 300°C			
NOTE			
1.	10 mm/min		
2.	10 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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