

Kingfa PA66-G50

Polyamide 66

Kingfa

Message:

Kingfa PA66-G50 is a polyamide 66 (nylon 66) material, which contains a 50% 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 PA66-G50 are:

flame retardant/rated flame

anti-warping

beautiful

Impact resistance

Typical application areas include:

electrical appliances

Tools

Automotive Industry

Sporting goods

General Information			
UL YellowCard	E171666-225725	E171666-531095	
Filler / Reinforcement	Glass fiber reinforced material, 50% 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	1.56	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 23°C	0.20	%	ASTM D955
Transverse flow: 23°C	0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	210	MPa	ASTM D638
Flexural Modulus ²	13000	MPa	ASTM D790
Flexural Strength ³	300	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.20 mm)	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	258	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	253	°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
1.60 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	260 - 280	°C	
Middle Temperature	265 - 300	°C	
Front Temperature	275 - 305	°C	
Processing (Melt) Temp	275 - 310	°C	
Mold Temperature	50.0 - 80.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Processing Temperature Limit: 310°C			
NOTE			
1.	10 mm/min		
2.	2.0 mm/min		
3.	2.0 mm/min		

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