

Kingfa PA6-MG45

Polyamide 6

Kingfa

Message:

Kingfa PA6-MG45 is a polyamide 6 (nylon 6) material that contains 45% glass \minerals. This product is available in North America or Asia Pacific region. The processing method is injection molding. The main features of Kingfa PA6-MG45 are:
flame retardant/rated flame
anti-warping
beautiful
Wear-resistant
The typical application field of Kingfa PA6-MG45 is: automotive industry

General Information			
UL YellowCard	E171666-100708554		
Filler / Reinforcement	Glass \mineral, 45% filler by weight		
Features	Bending resistance		
	Good wear resistance		
	Excellent appearance		
Uses	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.20 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	130	MPa	ASTM D638
Tensile Elongation ² (Break)	2.0	%	ASTM D638
Flexural Modulus ³	9100	MPa	ASTM D790
Flexural Strength ⁴	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	219	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	212	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

