

Kangxi® NHFRPA6-25GF

Polyamide 6

Wuxi Kangxi Plastics Technology Co.,Ltd.

Message:

Kangxi®NHFRPA6-25GF is a polyamide 6 (nylon 6) product, which contains a 25% glass fiber reinforced material. It can be processed by injection molding and is available in the Asia-Pacific region. Typical application areas are: electrical/electronic applications.

Features include:

flame retardant/rated flame

Flame Retardant

high gloss

Impact resistance

Halogen-free

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Features	Highlight		
	Impact resistance, good		
	Halogen-free		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.38	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.50	%	ASTM D955
Transverse flow	1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	100	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.0	%	ASTM D638
Flexural Modulus ⁴	5000	MPa	ASTM D790
Flexural Strength ⁵	140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	55	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	210	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	180	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.6 mm	V-2		UL 94
3.2 mm	V-2		UL 94
Additional Information	Nominal Value	Unit	Test Method
Weather Resistance - 24 hr (23°C)	0.85	%	ASTM D570
Injection	Nominal Value	Unit	
Drying Temperature	95	°C	
Drying Time	6.0	hr	
Rear Temperature	220 - 250	°C	
Middle Temperature	220 - 250	°C	
Front Temperature	220 - 250	°C	
Processing (Melt) Temp	230 - 255	°C	
Mold Temperature	40 - 70	°C	
NOTE			
1.	23°C		
2.	10 mm/min		
3.	10 mm/min		
4.	2.0 mm/min		
5.	2.0 mm/min		

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