

Kangxi® ABS-20GF

Acrylonitrile Butadiene Styrene

Wuxi Kangxi Plastics Technology Co.,Ltd.

Message:

Kangxi®ABS-20GF is an acrylonitrile butadiene styrene (ABS) product, and its filler is 20% glass fiber reinforced material. It can be processed by injection molding and is available in the Asia-Pacific region. Kangxi®ABS-20GF application areas include electrical appliances, automobile industry and sporting goods.

Features include:

flame retardant/rated flame

ROHS certification

Low shrinkage

high gloss

high strength

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Good dimensional stability		
	Low warpage		
	Highlight		
	High strength		
	Low shrinkage		
Uses	Electrical appliances		
	Application in Automobile Field		
	Sporting goods		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.18	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	80.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	< 2.0	%	ASTM D638
Flexural Modulus ⁴	5000	MPa	ASTM D790
Flexural Strength ⁵	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	65	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	105	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	90.0	°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
1.6 mm	HB		UL 94
3.2 mm	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Weather Resistance - 24 hr (23°C)	0.080	%	ASTM D570
Injection	Nominal Value	Unit	
Drying Temperature	80 - 90	°C	
Drying Time	2.0 - 3.0	hr	
Rear Temperature	185 - 240	°C	
Middle Temperature	185 - 240	°C	
Front Temperature	185 - 240	°C	
Processing (Melt) Temp	220 - 245	°C	
Mold Temperature	30 - 80	°C	
NOTE			
1.	23°C		
2.	50 mm/min		
3.	50 mm/min		
4.	2.0 mm/min		
5.	2.0 mm/min		

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