

Kangxi® FRPC-10GF

Polycarbonate

Wuxi Kangxi Plastics Technology Co.,Ltd.

Message:

Kangxi®FRPC-10GF is a polycarbonate (PC) product that contains a 10% glass fiber reinforced material. It is available in the Asia-Pacific region.

Kangxi®FRPC-10GF applications include electrical/electronic applications, housing, automotive industries and printing applications.

Features include:

flame retardant/rated flame

ROHS certification

Flame Retardant

High stiffness

high strength

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Good dimensional stability		
	Low warpage		
	Rigidity, high		
	High strength		
	Excellent appearance		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Connector		
	Application in Automobile Field		
	Shell		
	Printing machine parts		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.34	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	ASTM D955
Transverse flow	0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	81		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	84.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	4.5	%	ASTM D638
Flexural Modulus ⁴	4500	MPa	ASTM D790
Flexural Strength ⁵	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.20 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	120	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	105	°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	V-0		UL 94
3.2 mm	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Weather Resistance - 24 hr (23°C)	0.12	%	ASTM D570
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	230 - 280	°C	
Middle Temperature	230 - 280	°C	
Front Temperature	230 - 280	°C	
Processing (Melt) Temp	235 - 270	°C	
Mold Temperature	90 - 130	°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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