

Kangxi® PC-20GF

Polycarbonate

Wuxi Kangxi Plastics Technology Co.,Ltd.

Message:

Kangxi®PC-20GF is a polycarbonate (PC) product that contains a 20% glass fiber reinforced material. It is available in the Asia-Pacific region.

Kangxi®PC-20GF applications include electrical/electronic applications, housing, automotive industries and printing applications.

Features include:

flame retardant/rated flame

ROHS certification

High stiffness

high strength

anti-warping

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Good dimensional stability		
	Low warpage		
	Rigidity, high		
	High strength		
	Excellent appearance		
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	1.33	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)	84		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	90.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	5.0	%	ASTM D638
Flexural Modulus ⁴	5200	MPa	ASTM D790
Flexural Strength ⁵	130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	120	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	140	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	125	°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)	0.14	%	ASTM D570
Injection	Nominal Value	Unit	
Drying Temperature	110 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Rear Temperature	240 - 290	°C	
Middle Temperature	240 - 290	°C	
Front Temperature	240 - 290	°C	
Processing (Melt) Temp	250 - 280	°C	
Mold Temperature	80 - 120	°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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