

Kangxi® FRPET-30GF

Polyethylene Terephthalate

Wuxi Kangxi Plastics Technology Co.,Ltd.

Message:

Kangxi®FRPET-30GF is a polyethylene terephthalate (PET) product, which contains a 30% glass fiber reinforced material. It can be processed by injection molding and is available in the Asia-Pacific region. Kangxi®FRPET-30GF applications include electrical/electronic applications, electrical appliances and the automotive industry.

Features include:

flame retardant/rated flame

Flame Retardant

high strength

Heat resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	High strength		
	Heat resistance, high		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Connector		
	Application in Automobile Field		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.65	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	ASTM D955
Transverse flow	0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²	120	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.5	%	ASTM D638
Flexural Modulus ⁴	8000	MPa	ASTM D790
Flexural Strength ⁵	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	230	°C	ASTM D648

1.8 MPa, unannealed, 6.40mm	220	°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)	0.060	%	ASTM D570
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	230 - 270	°C	
Middle Temperature	230 - 270	°C	
Front Temperature	230 - 270	°C	
Processing (Melt) Temp	250 - 270	°C	
Mold Temperature	80 - 110	°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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