

Kangxi® PET-30GF

Polyethylene Terephthalate

Wuxi Kangxi Plastics Technology Co.,Ltd.

Message:

Kangxi®PET-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®PET-30GF applications include electrical/electronic applications, electrical appliances and the automotive industry.

Features include:

flame retardant/rated flame

high strength

Heat resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	High strength		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Connector		
	Application in Automobile Field		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.54	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	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	130	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.5	%	ASTM D638
Flexural Modulus ⁴	7500	MPa	ASTM D790
Flexural Strength ⁵	180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	100	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	HB		UL 94
3.2 mm	HB		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	235 - 275	°C	
Middle Temperature	235 - 275	°C	
Front Temperature	235 - 275	°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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