

Kangxi® FRPBT-30GF

Polybutylene Terephthalate

Wuxi Kangxi Plastics Technology Co.,Ltd.

Message:

Kangxi®FRPBT-30GF is a polybutene terephthalate (PBT) 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®FRPBT-30GF application areas include electrical/electronic applications, electrical appliances and handles.

Features include:

flame retardant/rated flame

ROHS certification

Flame Retardant

High stiffness

high strength

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	High strength		
	Heat resistance, high		
	Flame retardancy		
Uses	Handle		
	Electrical/Electronic Applications		
	Electrical appliances		
	Connector		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.63	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	110	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.6	%	ASTM D638
Flexural Modulus ⁴	6000	MPa	ASTM D790
Flexural Strength ⁵	145	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	210	°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)	0.070	%	ASTM D570
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	220 - 260	°C	
Middle Temperature	220 - 260	°C	
Front Temperature	220 - 260	°C	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	50 - 70	°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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