

KumhoSunny PBT 3730FG

Polybutylene Terephthalate

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

PBT3730FG is 30%GF reinforced flame retardant PBT resin. PBT3730FG has high rigidity, super shape resistance property, high heat resistance and excellent UV stability. PBT3730FG is mainly used in electric connector, compress system ending, power tools housing, communication equipment, sports equipments, etc.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
	Good UV Resistance		
	High Heat Resistance		
	High Rigidity		
Uses	Communication Applications		
	Connectors		
	Electrical/Electronic Applications		
	Housings		
	Power/Other Tools		
	Sporting Goods		
UL File Number	E254819		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	120	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	8000	MPa	ASTM D790
Flexural Strength	185	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	218	°C	
1.8 MPa, Unannealed	212	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093

Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		
1.60 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	120 to 140	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	220 to 240	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	240 to 270	°C	
Nozzle Temperature	240 to 270	°C	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	50.0 to 80.0	°C	
Back Pressure	0.200 to 0.800	MPa	
Screw Speed	20 to 80	rpm	

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