

KumhoSunny PBT 3730FG-NH

Polybutylene Terephthalate

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

PBT3730FG-NH is 30%GF reinforced flame retardant non-halogen PBT resin. PBT3730FG-NH has high rigidity, super shape resistance property, high heat resistance and excellent UV stability. PBT3730FG-NH 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		
	Halogen Free		
	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	1.58	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)	2.0	%	ASTM D638
Flexural Modulus	9000	MPa	ASTM D790
Flexural Strength	180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	220	°C	
1.8 MPa, Unannealed	210	°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 (1.60 mm)	V-0		UL 94
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	230 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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