KumhoSunny PBT 3710G

Polybutylene Terephthalate

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

3710G is a 10% glass fiber reforced PBT resin, offering high rigidity,high heat resistance and dimensional stability.PBT3710G is recommended for automobile air condition vent, shutter,microwave oven, etc.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Dimensional Stability Good UV Resistance High Heat Resistance High Rigidity Low to No Odor		
Uses	Automotive Applications Automotive Exterior Parts Automotive Interior Parts Consumer Applications Electrical Parts Electrical/Electronic Applications		
UL File Number	E254819 E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.38	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	30	g/10 min	ISO 1133
Molding Shrinkage			
Flow	0.60 to 1.0	%	ASTM D955
--	0.60 to 1.0	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	85.0	MPa	ASTM D638, ISO 527-2/50
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus			
--	4000	MPa	ASTM D790
-- [1]	4000	MPa	ISO 178
Flexural Strength			

--	130	MPa	ASTM D790
-- [2]	130	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	5.0	kJ/m²	
23°C	7.5	kJ/m²	
Notched Izod Impact			
3.20 mm	60	J/m	ASTM D256
23°C	7.0	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	200	°C	ASTM D648
1.8 MPa, Unannealed	180	°C	ASTM D648, ISO 75-2/A
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 (0.800 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	110 to 120	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	220 to 235	°C	
Middle Temperature	230 to 250	°C	
Front Temperature	245 to 260	°C	
Nozzle Temperature	250 to 265	°C	
Processing (Melt) Temp	245 to 260	°C	
Mold Temperature	60.0 to 80.0	°C	
Back Pressure	0.200 to 0.800	MPa	
Screw Speed	20 to 100	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

Recommended distributors for this material

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