

KumhoSunny PBT/ASA HBA5830G

Polybutylene Terephthalate + ASA

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HBA5830G is a 30% glass reinforced PBT/ASA blend with excellent mechanical properties, high dimensional stability and low density. Applications: connectors and automotive industry.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Dimensional Stability		
	Low Density		
Uses	Automotive Applications		
	Connectors		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.45	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage (23°C)	0.30 to 0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	120	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ¹	8000	MPa	ISO 178
Flexural Stress ²	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m²	
23°C	8.0	kJ/m²	
Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179
Notched Izod Impact Strength (23°C)	8.0	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed)	190	°C	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
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	235 to 240	°C	
Middle Temperature	240 to 260	°C	
Front Temperature	240 to 260	°C	
Nozzle Temperature	250 to 260	°C	
Processing (Melt) Temp	245 to 260	°C	
Mold Temperature	50.0 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
3. 120°C/h

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