

KumhoSunny PBT/ABS HAB8740

Acrylonitrile Butadiene Styrene + PBT

Shanghai KumhoSunny Plastics Co., Ltd.

Message:

HAB8740 is a high flow and high Impact PBT/ABS alloy resin, offering medium heat resistance, excellent normal and low temperature impact strength and chemical resistance. HAB8740 is recommended for automobile parts, office appliance, electrical and electronic components.

General Information			
Features	Good Chemical Resistance		
	High Flow		
	High Impact Resistance		
	Low Temperature Impact Resistance		
	Medium Heat Resistance		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Interior Parts		
	Electrical Parts		
	Electrical/Electronic Applications		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.13	g/cm ³	ASTM D792
--	1.17	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/5.0 kg	20	g/10 min	ASTM D1238
260°C/5.0 kg	18	g/10 min	ISO 1133
Molding Shrinkage			
Flow	0.50 to 0.80	%	ASTM D955
--	0.50 to 0.80	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	47.0	MPa	ASTM D638
--	50.0	MPa	ISO 527-2/5
Tensile Elongation (Break)	150	%	ASTM D638

Flexural Modulus			
--	1700	MPa	ASTM D790
-- ¹	2000	MPa	ISO 178
Flexural Strength			
--	65.0	MPa	ASTM D790
-- ²	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	23	kJ/m ²	
23°C	48	kJ/m ²	
Notched Izod Impact			
3.20 mm	700	J/m	ASTM D256
23°C	45	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed	90.0	°C	ASTM D648
1.8 MPa, Unannealed ³	95.0	°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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
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	225 to 240	°C	
Middle Temperature	230 to 260	°C	
Front Temperature	230 to 260	°C	
Nozzle Temperature	230 to 260	°C	
Processing (Melt) Temp	230 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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