

KumhoSunny ABS 770Z

Acrylonitrile Butadiene Styrene
Shanghai KumhoSunny Plastics Co., Ltd.

Message:

ABS770Z is a low gloss ABS resin for extrusion, offering balanced physical properties. ABS770Z is recommended for automobile parts.

General Information			
Features	Low Gloss		
Uses	Automotive Applications		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage (23°C)	0.40 to 0.70	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	103		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	40.0	MPa	ISO 527-2/50
Tensile Strain (Break)	40	%	ISO 527-2/50
Flexural Modulus ¹	2000	MPa	ISO 178
Flexural Stress ²	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179
-30°C	12	kJ/m ²	
23°C	21	kJ/m ²	
Charpy Unnotched Impact Strength ⁴ (23°C)	No Break		ISO 179
Notched Izod Impact Strength ⁵			ISO 180
-30°C	11	kJ/m ²	
23°C	20	kJ/m ²	
Unnotched Izod Impact Strength ⁶ (23°C)	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, Unannealed	95.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	78.0	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°C	ISO 306/B50

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	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	190 to 210	°C	
Middle Temperature	210 to 220	°C	
Front Temperature	220 to 235	°C	
Nozzle Temperature	220 to 235	°C	
Processing (Melt) Temp	220 to 235	°C	
Mold Temperature	50.0 to 80.0	°C	
Back Pressure	1.00 to 5.00	MPa	
Screw Speed	30 to 70	rpm	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	Condition: 4 J		
4.	Condition: 4 J		
5.	Condition: 5.5 J		
6.	Condition: 5.5 J		
7.	120°C/h		

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