

KumhoSunny ABS HU650Z

Acrylonitrile Butadiene Styrene
Shanghai KumhoSunny Plastics Co., Ltd.

Message:
Kumhosunny ABSHU650Z is heat resistance ABS with low gloss, high rigidity , toughness and good UV stability.Application:Hair dryer shells,electric oven exterior parts and microwave ovens etc.

General Information			
Features	Good Toughness		
	Good UV Resistance		
	High Rigidity		
	Low Gloss		
	Medium Heat Resistance		
Uses	Consumer Applications		
	Electrical Parts		
	Electrical/Electronic Applications		
UL File Number	E254819		
	E65424		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.0	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)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	10	%	ISO 527-2/50
Flexural Modulus ¹	2300	MPa	ISO 178
Flexural Stress ²	62.0	MPa	ISO 178
Poisson's Ratio ³	0.40		ISO 527
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴			ISO 179
-30°C	8.0	kJ/m ²	
23°C	14	kJ/m ²	

Charpy Unnotched Impact Strength ⁵ (23°C)	70	kJ/m ²	ISO 179
Notched Izod Impact Strength ⁶			ISO 180
-30°C	7.0	kJ/m ²	
23°C	13	kJ/m ²	
Unnotched Izod Impact Strength ⁷ (23°C)	65	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, Unannealed	105	°C	ISO 75-2/B
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature	112	°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	90.0 to 105	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	220 to 240	°C	
Middle Temperature	230 to 250	°C	
Front Temperature	240 to 260	°C	
Nozzle Temperature	250 to 270	°C	
Processing (Melt) Temp	240 to 260	°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.	1mm/min		
4.	Condition: 4 J		
5.	Condition: 4 J		
6.	Condition: 5.5 J		
7.	Condition: 5.5 J		
8.	120°C/h		

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