

KumhoSunny ABS 730

Acrylonitrile Butadiene Styrene
Shanghai KumhoSunny Plastics Co., Ltd.

Message:
Kumhosunny ABS730 is heat resistance ABS with high rigidity , toughness and good UVstability.Application:Hair dryer shells,electric oven exterior parts and microwave ovens etc.

General Information			
Features	Good Toughness		
	Good UV Resistance		
	High Heat Resistance		
	High Rigidity		
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)	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	16	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)	105		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	30	%	ISO 527-2/50
Flexural Modulus ¹	2300	MPa	ISO 178
Flexural Stress ²	65.0	MPa	ISO 178
Poisson's Ratio ³	0.38		ISO 527
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁴			ISO 179
-30°C	11	kJ/m ²	
23°C	19	kJ/m ²	
Charpy Unnotched Impact Strength ⁵ (23°C)	No Break		ISO 179

Notched Izod Impact Strength ⁶			ISO 180
-30°C	10	kJ/m ²	
23°C	18	kJ/m ²	
Unnotched Izod Impact Strength ⁷ (23°C)			ISO 180
No Break			
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸			
0.45 MPa, Unannealed	95.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	82.0	°C	ISO 75-2/A
Vicat Softening Temperature	100	°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	230 to 245	°C	
Processing (Melt) Temp	220 to 240	°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.	1 mm/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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