

Kumho ABS HU650

Acrylonitrile Butadiene Styrene
Korea Kumho Petrochemical Co., Ltd.

Message:

Features: Super heat resistance
Applications: Automobile parts, Mirror housing, Radiator grills, Rear lamp housings

General Information			
UL YellowCard	E65424-247719		
Features	High Heat Resistance		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Under the Hood		
RoHS Compliance	RoHS Compliant		
UL File Number	E65424		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/21.6 kg	6.0	g/10 min	ASTM D1238
220°C/10.0 kg	4.0	g/10 min	ASTM D1238
220°C/10.0 kg	5.0	g/10 min	ISO 1133
Molding Shrinkage			
Flow	0.50 to 0.80	%	ASTM D955
--	0.50 to 0.80	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	47.6	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2
Tensile Elongation			
Yield	15	%	ASTM D638
Break	20	%	ISO 527-2
Flexural Modulus			
--	2210	MPa	ASTM D790
--	2350	MPa	ISO 178
Flexural Stress			
--	70.0	MPa	ISO 178
Yield	67.7	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	19	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm	200	J/m	ASTM D256
23°C, 6.40 mm	180	J/m	ASTM D256
23°C	18	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	112	°C	ISO 75-2/B
1.8 MPa, Unannealed	104	°C	ASTM D648
1.8 MPa, Unannealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature	114	°C	ISO 306/B50, ASTM D1525 1
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		

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