

Kumho ABS HU651

Acrylonitrile Butadiene Styrene
Korea Kumho Petrochemical Co., Ltd.

Message:

Features: Odorless, High heat resistance
Applications: Automobile parts demanding for heat resistance and odorless

General Information			
Features	High Heat Resistance		
	Low to No Odor		
Uses	Automotive Applications		
UL File Number	E65424		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/21.6 kg	7.5	g/10 min	ASTM D1238
220°C/10.0 kg	5.5	g/10 min	ASTM D1238, 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)	105		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	20	%	ASTM D638
Break	25	%	ISO 527-2
Flexural Modulus			
--	2010	MPa	ASTM D790
--	2100	MPa	ISO 178
Flexural Stress			
--	66.0	MPa	ISO 178
Yield	62.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm	200	J/m	ASTM D256

23°C, 6.40 mm	150	J/m	ASTM D256
23°C	15	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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