

Kumho ABS H2938

Acrylonitrile Butadiene Styrene
Korea Kumho Petrochemical Co., Ltd.

Message:

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

General Information			
UL YellowCard	E65424-247690		
Features	Medium 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	18	g/10 min	ASTM D1238
220°C/10.0 kg	12	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)	108		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	46.6	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2
Tensile Elongation			
Yield	20	%	ASTM D638
Break	24	%	ISO 527-2
Flexural Modulus			
--	2110	MPa	ASTM D790
--	2250	MPa	ISO 178
Flexural Stress			
--	69.0	MPa	ISO 178
Yield	63.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	22	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm	250	J/m	ASTM D256
23°C, 6.40 mm	210	J/m	ASTM D256
23°C	21	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	102	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ASTM D648
1.8 MPa, Unannealed	90.0	°C	ISO 75-2/A
Vicat Softening Temperature	105	°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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