

Kumho ABS 720R

Acrylonitrile Butadiene Styrene
Korea Kumho Petrochemical Co., Ltd.

Message:

Features: High rigidity
Applications: Automotive batteries

General Information			
Features	High Rigidity		
Uses	Automotive Under the Hood		
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	30	g/10 min	ASTM D1238
220°C/10.0 kg	20	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)	113		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	52.0	MPa	ASTM D638
Yield	50.0	MPa	ISO 527-2
Tensile Elongation			
Yield	15	%	ASTM D638
Break	17	%	ISO 527-2
Flexural Modulus	2500	MPa	ASTM D790, ISO 178
Flexural Stress			
--	74.0	MPa	ISO 178
Yield	73.5	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	95.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	89.0	°C	ASTM D648
1.8 MPa, Unannealed	84.0	°C	ISO 75-2/A
Vicat Softening Temperature	99.0	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

