

Kumho ABS HU621

Acrylonitrile Butadiene Styrene
Korea Kumho Petrochemical Co., Ltd.

Message:

Features: High heat resistance, High impact strength
Applications: Automobile parts, Mirror housing, Radiator grills, Rear lamp housings

General Information			
UL YellowCard	E65424-247717		
Features	High Heat Resistance		
	High Impact Resistance		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	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	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)	107		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	47.1	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2
Tensile Elongation			
Yield	20	%	ASTM D638
Break	24	%	ISO 527-2
Flexural Modulus			
--	1810	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Stress			
--	64.0	MPa	ISO 178
Yield	60.8	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	27	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm	310	J/m	ASTM D256
23°C, 6.40 mm	250	J/m	ASTM D256
23°C	26	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	94.0	°C	ASTM D648
1.8 MPa, Unannealed	89.0	°C	ISO 75-2/A
Vicat Softening Temperature	104	°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

