

Kumho ABS BM-510

Acrylonitrile Butadiene Styrene
Korea Kumho Petrochemical Co., Ltd.

Message:
Features: Blow molding, Heat resistance, General use
Applications: Automobile rear spoiler

General Information			
Features	General Purpose		
	Medium Heat Resistance		
Uses	Automotive Exterior Parts		
	General Purpose		
UL File Number	E65424		
Processing Method	Blow Molding		
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	6.5	g/10 min	ASTM D1238
220°C/10.0 kg	4.0	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)	100		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	42.2	MPa	ASTM D638
Yield	41.0	MPa	ISO 527-2
Tensile Elongation			
Yield	25	%	ASTM D638
Break	29	%	ISO 527-2
Flexural Modulus			
--	2160	MPa	ASTM D790
--	2100	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)	30	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm	340	J/m	ASTM D256
23°C, 6.40 mm	270	J/m	ASTM D256
23°C	29	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	99.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	93.0	°C	ASTM D648
1.8 MPa, Unannealed	88.0	°C	ISO 75-2/A
Vicat Softening Temperature	103	°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



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