

Kumho EP HGX4500

Acrylonitrile Butadiene Styrene
Korea Kumho Petrochemical Co., Ltd.

Message:

Features: Ultra high heat resistance
Applications: Automobile parts, Mirror housing, Radiator grills, Rear lamp housings

General Information			
UL YellowCard	E65424-247674		
Features	High Heat Resistance		
Uses	Automotive Applications		
	Automotive Exterior Parts		
	Automotive Under the Hood		
UL File Number	E65424		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.05	g/cm ³	ASTM D792
--	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/21.6 kg	4.5	g/10 min	ASTM D1238
220°C/10.0 kg	3.0	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)	107		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	15	%	ASTM D638
Break	17	%	ISO 527-2
Flexural Modulus			
--	2160	MPa	ASTM D790
--	2300	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)	15	kJ/m²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm	160	J/m	ASTM D256
23°C, 6.40 mm	140	J/m	ASTM D256
23°C	14	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	115	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ASTM D648
1.8 MPa, Unannealed	105	°C	ISO 75-2/A
Vicat Softening Temperature	120	°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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