

Kumho ABS 745

Acrylonitrile Butadiene Styrene
Korea Kumho Petrochemical Co., Ltd.

Message:
Features: Super impact resistance
Applications: Helmets, Suitcase

General Information			
UL YellowCard	E65424-247677		
Features	High Impact Resistance		
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	10	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)	98		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	41.2	MPa	ASTM D638
Yield	40.0	MPa	ISO 527-2
Tensile Elongation			
Yield	25	%	ASTM D638
Break	28	%	ISO 527-2
Flexural Modulus			
--	1960	MPa	ASTM D790
--	21000	MPa	ISO 178
Flexural Stress			
--	59.0	MPa	ISO 178
Yield	56.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	37	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm	440	J/m	ASTM D256
23°C, 6.40 mm	340	J/m	ASTM D256

23°C	36	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	84.0	°C	ASTM D648
1.8 MPa, Unannealed	79.0	°C	ISO 75-2/A
Vicat Softening Temperature	94.0	°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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