



Kumho ABS 750SW

Korea Kumho Petrochemical Co., Ltd. - Acrylonitrile Butadiene Styrene

Wednesday, July 14, 2021

General Information

Product Description

Features: Super white, Easy flow, Medium impact strength

Applications: Electronics, Household appliances, Miscellaneous goods

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Flow	• Medium Impact Resistance	
Uses	• Electrical Parts	• Electrical/Electronic Applications	• Household Goods
RoHS Compliance	• RoHS Compliant		
UL File Number	• E65424		
Appearance	• White		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04	g/cm ³	ASTM D792
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate			ASTM D1238
200°C/21.6 kg	38	g/10 min	
220°C/10.0 kg	38	g/10 min	
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	38	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Molding Shrinkage	0.50 to 0.80	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	47.6	MPa	ASTM D638
Tensile Stress (Yield)	46.0	MPa	ISO 527-2
Tensile Elongation (Yield)	15	%	ASTM D638
Tensile Strain (Break)	20	%	ISO 527-2
Flexural Modulus	2400	MPa	ASTM D790
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	73.0	MPa	ISO 178
Flexural Strength (Yield)	70.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	22	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
23°C, 3.20 mm	240	J/m	
23°C, 6.40 mm	200	J/m	
Notched Izod Impact Strength (23°C)	21	kJ/m ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ASTM D785
Rockwell Hardness (R-Scale)	109		ISO 2039-2

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	91.0	°C	ISO 75-2/B
Deflection Temperature Under Load 1.8 MPa, Unannealed	85.0	°C	ASTM D648
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°C	ASTM D1525 ²
Vicat Softening Temperature	95.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	HB		UL 94

Notes

¹ Typical properties: these are not to be construed as specifications.

² Rate A (50°C/h), Loading 2 (50 N)