

Kumho ABS ER-872M

Acrylonitrile Butadiene Styrene
Korea Kumho Petrochemical Co., Ltd.

Message:

Features: ESCR, Extrusiom molding use
Applications: Refrigerator inner case, door liner(HCFC-141B foaming agent use)

General Information			
Features	High ESCR (Stress Crack Resist.)		
Uses	Household Goods		
UL File Number	E65424		
Processing Method	Extrusion		
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	8.0	g/10 min	ASTM D1238
220°C/10.0 kg	5.5	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	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			
--	1910	MPa	ASTM D790
--	2000	MPa	ISO 178
Flexural Stress			
--	61.0	MPa	ISO 178
Yield	56.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	42	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.20 mm	590	J/m	ASTM D256
23°C, 6.40 mm	390	J/m	ASTM D256

23°C	41	kJ/m ²	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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