

Kumho ABS 780

Acrylonitrile Butadiene Styrene

Korea Kumho Petrochemical Co., Ltd.

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Technical Data

Product Description

Features: High flow

Applications: Electronics, Household appliances, Miscellaneous goods

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• High Flow
Uses	• Electrical/Electronic Applications • Household Goods
RoHS Compliance	• RoHS Compliant
UL File Number	• E65424

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.04	1.04 g/cm ³	ASTM D792
--	1.04 g/cm ³	1.04 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/21.6 kg	75 g/10 min	75 g/10 min	ASTM D1238
220°C/10.0 kg	55 g/10 min	55 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage			
Flow	5.0E-3 to 8.0E-3 in/in	0.50 to 0.80 %	ASTM D955
--	0.50 to 0.80 %	0.50 to 0.80 %	ISO 294-4

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			
Yield	6610 psi	45.6 MPa	ASTM D638
Yield	6380 psi	44.0 MPa	ISO 527-2
Tensile Elongation			
Yield	20 %	20 %	ASTM D638
Break	24 %	24 %	ISO 527-2
Flexural Modulus			
--	306000 psi	2110 MPa	ASTM D790
--	326000 psi	2250 MPa	ISO 178
Flexural Stress			
--	9430 psi	65.0 MPa	ISO 178
Yield	8960 psi	61.8 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	11 ft·lb/in ²	24 kJ/m ²	ISO 179/1eA
Notched Izod Impact			
73°F (23°C), 0.126 in (3.20 mm)	5.0 ft·lb/in	260 J/m	ASTM D256
73°F (23°C), 0.252 in (6.40 mm)	4.0 ft·lb/in	220 J/m	ASTM D256
73°F (23°C)	11 ft·lb/in ²	23 kJ/m ²	ISO 180/1A

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	108	108	ASTM D785 ISO 2039-2

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	196 °F	91.0 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	185 °F	85.0 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	ISO 75-2/A
Vicat Softening Temperature	203 °F	95.0 °C	ISO 306/B50 ASTM D1525 ²



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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	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)



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Where to Buy

Supplier

Korea Kumho Petrochemical Co., Ltd.

Seoul, South Korea

Telephone: +82-2-767-6114

Web: <http://www.kkpc.co.kr/>

Distributor

GAZECHIM PLASTIQUES

GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.

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