

# Kumho ABS 750

Acrylonitrile Butadiene Styrene

Korea Kumho Petrochemical Co., Ltd.

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Features: General 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	• Good Impact Resistance	
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 <sup>3</sup>	ASTM D792
--	1.04 g/cm <sup>3</sup>	1.04 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/21.6 kg	48 g/10 min	48 g/10 min	ASTM D1238
220°C/10.0 kg	35 g/10 min	35 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	22 %	22 %	ISO 527-2
Flexural Modulus			
--	313000 psi	2160 MPa	ASTM D790
--	334000 psi	2300 MPa	ISO 178
Flexural Stress			
--	9720 psi	67.0 MPa	ISO 178
Yield	9250 psi	63.7 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	12 ft·lb/in <sup>2</sup>	26 kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact			
73°F (23°C), 0.126 in (3.20 mm)	5.5 ft·lb/in	290 J/m	ASTM D256
73°F (23°C), 0.252 in (6.40 mm)	4.4 ft·lb/in	240 J/m	ASTM D256
73°F (23°C)	12 ft·lb/in <sup>2</sup>	25 kJ/m <sup>2</sup>	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 <sup>2</sup>



# Kumho ABS 750

Acrylonitrile Butadiene Styrene

Korea Kumho Petrochemical Co., Ltd.

# PROSPECTOR®

www.ulprospector.com

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Rate A (50°C/h), Loading 2 (50 N)



## Kumho ABS 750

Acrylonitrile Butadiene Styrene

Korea Kumho Petrochemical Co., Ltd.

# PROSPECTOR®

[www.ulprospector.com](http://www.ulprospector.com)

### 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.*

**Telephone:** +33-4-67-49-55-37

**Web:** <http://www.gazechim.com/>

**Availability:** Belgium, France, Italy, Netherlands, Poland, Romania, United Kingdom

##### **Nexeo Solutions - Europe**

*Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.*

**Telephone:** +34-93-480-9125

**Web:** <http://www.nexeosolutions.com/>

**Availability:** Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Switzerland

##### **Southland Polymers**

*Southland Polymers - Full Service Engineering and Commodity Resin Distribution Since 1979*

**Telephone:** 562-921-0444

**Web:** <http://www.southlandpolymers.com/>

**Availability:** Central America, North America, South America

