

# Kumho ABS 765

Acrylonitrile Butadiene Styrene

Korea Kumho Petrochemical Co., Ltd.

# PROSPECTOR®

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## Technical Data

### Product Description

Features: General painting use

Applications: Injection molded products for painting: Automobile parts, household appliances

### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• General Purpose	• Paintable	
Uses	• Automotive Applications	• General Purpose	• Household Goods
UL File Number	• E65424		
Processing Method	• Injection Molding		

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	30 g/10 min	30 g/10 min	ASTM D1238
220°C/10.0 kg	20 g/10 min	20 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	6540 psi	45.1 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			
--	299000 psi	2060 MPa	ASTM D790
--	319000 psi	2200 MPa	ISO 178
Flexural Stress			
--	9720 psi	67.0 MPa	ISO 178
Yield	9100 psi	62.8 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	16 ft·lb/in <sup>2</sup>	34 kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact			
73°F (23°C), 0.126 in (3.20 mm)	6.6 ft·lb/in	350 J/m	ASTM D256
73°F (23°C), 0.252 in (6.40 mm)	5.9 ft·lb/in	310 J/m	ASTM D256
73°F (23°C)	16 ft·lb/in <sup>2</sup>	33 kJ/m <sup>2</sup>	ISO 180/1A

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	106	106	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>



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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

<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)



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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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