

# Durez® 118 (Compression)

Phenolic  
SBHPP

**PROSPECTOR®**

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## Technical Data

### Product Description

Durez 118 Black Phenolic is a two-stage, general purpose molding material. It exhibits improved impact strength and resistance to flexural fatigue for demanding automotive, electrical and appliance applications. Shrinkage and mechanical strengths are closely controlled to meet part reliability requirements.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">SBHPP</a> • <a href="#">Durez®</a>
Availability	• North America
Features	• General Purpose • Halogen Free
Uses	• Appliances • Automotive Applications • Electrical/Electronic Applications • General Purpose
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Granules
Processing Method	• Compression Molding • Resin Transfer Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.40 g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.58 g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	0.70 %	ASTM D6289
Water Absorption (Equilibrium)	0.50 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	9600 MPa	ASTM D638
Tensile Strength	55.0 MPa	ASTM D638
Flexural Strength	76.0 MPa	ASTM D790
Compressive Strength	207 MPa	ASTM D695

Impact	Nominal Value Unit	Test Method
Unnotched Izod Impact	18 J/m	ASTM D256

Thermal	Nominal Value Unit	Test Method
RTI Elec (3.00 mm)	150 °C	UL 746
Deflection Temperature	171 °C	ASTM D648

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+13 ohms·cm	ASTM D257
Dielectric Strength		ASTM D149
-- <sub>3</sub>	16 kV/mm	
-- <sub>4</sub>	14 kV/mm	
Dielectric Constant (1 MHz)	4.70	ASTM D150
Dissipation Factor (1 MHz)	0.050	ASTM D150

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.50 mm	HB	
3.00 mm	V-1	
6.00 mm	V-0	



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### Notes

- <sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- <sup>2</sup> Typical properties: these are not to be construed as specifications.
- <sup>3</sup> Method A (Short-Time)
- <sup>4</sup> Method B (Step-by-Step)



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### Where to Buy

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#### Supplier

**SBHPP**

Tokyo, Japan

**Telephone:** +81-3-5462-4118

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

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#### Distributor

Please contact the supplier to find a distributor for Durez® 118 (Compression)

