

Durez® 32633 (Compression)

Phenolic
SBHPP

PROSPECTOR®

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Technical Data

Product Description

Durez 32633 Black Phenolic is a two-stage, glass filled, special purpose molding compound. It is designed for applications requiring high physical strengths, dimensional stability, and heat resistance. Typical applications include small motor and gear housings, brush holders, commutators, and under hood automotive applications.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• SBHPP • Durez®
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• Good Dimensional Stability • Halogen Free • High Heat Resistance • High Strength
Uses	• Automotive Under the Hood • Housings
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	1.77 g/cm ³	ASTM D792
Apparent Density	0.80 g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.15 %	ASTM D6289
Water Absorption (Equilibrium)	0.050 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	15800 MPa	ASTM D638
Tensile Strength	103 MPa	ASTM D638
Flexural Modulus (23°C)	15200 MPa	
Flexural Strength	138 MPa	ASTM D790
Compressive Modulus ³	10500 MPa	
Compressive Strength	345 MPa	ASTM D695
Shear Strength	96.5 MPa	

Impact	Nominal Value Unit	Test Method
Unnotched Izod Impact	48 J/m	ASTM D256

Thermal	Nominal Value Unit	Test Method
RTI Elec (3.00 mm)	150 °C	UL 746
Deflection Temperature	204 °C	ASTM D648

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+12 ohms·cm	ASTM D257
Dielectric Strength		ASTM D149
-- 4	18 kV/mm	
-- 5	16 kV/mm	
Dielectric Constant (1 MHz)	4.30	ASTM D150
Dissipation Factor (1 MHz)	0.020	ASTM D150

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



Notes

¹ 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.

² Typical properties: these are not to be construed as specifications.

³ 250°F

⁴ Method A (Short-Time)

⁵ Method B (Step-by-Step)



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Where to Buy

Supplier

SBHPP

Tokyo, Japan

Telephone: +81-3-5462-4118

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

Distributor

Please contact the supplier to find a distributor for Durez® 32633 (Compression)

