

# Durez® 29502 B

Phenolic

Sumitomo Bakelite North America, Inc.

## Message:

Durez 29502 B brown phenolic is a two stage, glass and mineral filled, special purpose molding material with improved mechanical and heat resistant properties. It is formulated for close tolerance applications such as disc brake pistons where good dimensional stability and compatability with various automotive fluids are essential. This product can be ground to accurate finished dimensions.

General Information			
Filler / Reinforcement	Glass Fiber		
	Mineral		
Features	Good Dimensional Stability		
	High Heat Resistance		
Appearance	Brown		
Forms	Granules		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.09	g/cm <sup>3</sup>	ASTM D792
Apparent Density	1.00	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (Saturation)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	23.0	MPa	ASTM D638
Tensile Strength	65.0	MPa	ASTM D638
Flexural Strength	114	MPa	ASTM D790
Compressive Strength	338	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
Glass Transition Temperature <sup>1</sup>	280	°C	DSC
CLTE - Flow <sup>2</sup> (25 to 177°C)	1.5E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	ASTM D257
Dielectric Strength			ASTM D149
-- <sup>3</sup>	14	kV/mm	
-- <sup>4</sup>	12	kV/mm	
Dielectric Constant (1 MHz)	5.00		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150

Thermoset	Nominal Value	Unit
Shelf Life	52	wk
NOTE		
1.	Postbaked	
2.	Postbaked	
3.	Method A (Short-Time)	
4.	Method B (Step-by-Step)	

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#### Recommended distributors for this material

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