

Sumitomo Bakelite Durez® 29502 Phenolic, Compression Grade

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Glass Filled

Material Notes:

Durez 29502 Brown Phenolic is a two stage, asbestos free, glass filled, special purpose molding material. It is formulated for close tolerance applications such as transmission valve bodies, and disc brake pistons where good dimensional stability and compatibility with transmission and brake fluid is essential. This product can be ground to accurate finished dimensions. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-29502-Phenolic-Compression-Grade.php

Physical Properties	Metric	English	Comments
Density	2.12 g/cc	0.0766 lb/in ³	ASTM D792
Apparent Bulk Density	1.02 g/cc	0.0368 lb/in ³	ASTM D1895
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ASTM D638
Tensile Modulus	20.7 GPa	3000 ksi	ASTM D638
Flexural Strength	83.0 MPa	12000 psi	
Compressive Strength	207 MPa	30000 psi	ASTM D695
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	7.78 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	191 Å°C	376 Å°F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	5.4 @Frequency 1e+6 Hz	5.4 @Frequency 1e+6 Hz	ASTM D150

Electrical Properties	5.9 Metric	5.9 English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
Dielectric Strength	11.8 kV/mm	300 kV/in	Step by step; ASTM D149
	14.8 kV/mm	376 kV/in	Short Time; ASTM D149
Dissipation Factor	0.010	0.010	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.030	0.030	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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