

Sumitomo Bakelite Durez[®] 32633 Glass Filled Phenolic, Compression Grade

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

Material Notes:

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. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-32633-Glass-Filled-Phenolic-Compression-Grade.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in ³	ASTM D792
Apparent Bulk Density	0.800 g/cc	0.0289 lb/in ³	ASTM D1895
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	103 MPa	14900 psi	ASTM D638
Tensile Modulus	15.8 GPa	2290 ksi	ASTM D638
Flexural Strength	138 MPa	20000 psi	
Compressive Strength	345 MPa	50000 psi	ASTM D695
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Deflection Temperature at 1.8 MPa (264 psi)	204 Â°C	399 Â°F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	4.3	4.3	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.7 kV/mm	399 kV/in	Step by step; ASTM D149
	17.7 kV/mm	450 kV/in	Short Time; ASTM D149
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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