

Sumitomo Bakelite Durez[®] 152 Phenolic, Compression Grade

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Mineral/Fiber Filled

Material Notes:

Durez 152 Phenolic is a two-stage, heat resistant/electrical molding material. It exhibits superior dimensional stability, good strength retention at elevated temperature and good molded appearance and machinability which account for its widespread use on electrical, telecommunication and appliance applications. Durez 152 is fungus resistant per Mil-I-631D and Mil-E-5272C. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-152-Phenolic-Compression-Grade.php

Physical Properties	Metric	English	Comments
Density	1.5 g/cc	0.054 lb/in ³	ASTM D792
Apparent Bulk Density	0.68 g/cc	0.025 lb/in ³	ASTM D1895
Water Absorption	0.3 %	0.3 %	ASTM D570
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	48 MPa	7000 psi	ASTM D638
Tensile Modulus	9.6 GPa	1400 ksi	ASTM D638
Flexural Strength	76 MPa	11000 psi	
Compressive Strength	207 MPa	30000 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	UL temperature Index
Deflection Temperature at 1.8 MPa (264 psi)	191 °C	376 °F	ASTM D648
Flammability, UL94	V-1	V-1	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
	5.0	5.0	

Dielectric Constant Electrical Properties	Metric @Frequency 1e+6 Hz	English @Frequency 1e+6 Hz	ASTM D150 Comments
Dielectric Strength	12.8 kV/mm	325 kV/in	Step by step; ASTM D149
	14.7 kV/mm	373 kV/in	Short Time; ASTM D149
Dissipation Factor	0.050 @Frequency 1e+6 Hz	0.050 @Frequency 1e+6 Hz	ASTM D150
Comparative Tracking Index	190 V	190 V	IEC Tracking Index

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