

Sumitomo Bakelite Durez[®] 156 Phenolic, Compression Grade

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

Material Notes:

Durez 156 Black Phenolic is a two-stage, asbestos-free, heat resistant/electrical molding material. It exhibits excellent dimensional stability, high heat resistance, good molded appearance, and UL flammability rating. Typical applications include automotive carburetor spacers, sealing rings, thrust washers, speedometer sleeves, appliance terminals, probe controls, insulators, light baffles, etc. Durez 156 is fungus resistant per 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-156-Phenolic-Compression-Grade.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
Apparent Bulk Density	0.650 g/cc	0.0235 lb/in ³	ASTM D1895
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D638
Tensile Modulus	10.3 GPa	1490 ksi	ASTM D638
Flexural Strength	72.0 MPa	10400 psi	
Compressive Strength	196 MPa	28400 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 Â°C	320 Â°F	UL temperature Index
Deflection Temperature at 1.8 MPa (264 psi)	191 Â°C	376 Â°F	ASTM D648
Flammability, UL94	V-1	V-1	
	@Thickness 0.500 mm	@Thickness 0.0197 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 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	10.8 kV/mm	274 kV/in	Step by step; ASTM D149
	11.8 kV/mm	300 kV/in	Short Time; ASTM D149
Dissipation Factor	0.050	0.050	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	180 V	180 V	IEC Tracking Index

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