

Sumitomo Bakelite Durez® 153 Phenolic, Injection Grade

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

Material Notes:

Durez 153 Black Phenolic is a two-stage, asbestos-free, heat resistant/electrical molding material. It exhibits good molded appearance and shock resistance for use on a wide variety of electrical and appliance applications. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-153-Phenolic-Injection-Grade.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Apparent Bulk Density	0.600 g/cc	0.0217 lb/in ³	ASTM D1895
Water Absorption	0.40 %	0.40 %	ASTM D570
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	ASTM D638
Flexural Strength	83.0 MPa	12000 psi	
Compressive Strength	186 MPa	27000 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	155 Â°C	311 Â°F	UL temperature Index
Deflection Temperature at 1.8 MPa (264 psi)	177 Â°C	351 Â°F	ASTM D648
Flammability, UL94	V-1	V-1	
	@Thickness 1.00 mm	@Thickness 0.0394 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
Dielectric Constant	5.1	5.1	
			ASTM D150

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Dielectric Strength	10.8 kV/mm	274 kV/in	Step by step; ASTM D149
	13.8 kV/mm	351 kV/in	Short Time; ASTM D149
Dissipation Factor	0.050	0.050	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	225 V	225 V	IEC Tracking Index

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