

Sumitomo Bakelite Durez[®] 32962 Phenolic Molding Compound, Injection Grade

Category : Polymer , Thermoset , Phenolic , Phenolic; Unreinforced; Molded

Material Notes:

Durez 32962 Black Phenolic is a medium impact, molding compound. It is designed for applications where additional mechanical strength is required. Typical applications include appliance housings where strength and appearance are important. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-32962-Phenolic-Molding-Compound-Injection-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Bulk Density	0.580 g/cc	0.0210 lb/in ³	ASTM D1895
Water Absorption	0.50 %	0.50 %	ASTM D570
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM D6289

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ASTM D638
Tensile Modulus	6.90 GPa	1000 ksi	ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ASTM D790
Compressive Strength	207 MPa	30000 psi	ASTM D695
Izod Impact, Notched	0.214 J/cm	0.401 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Å°C @Thickness 3.00 mm	302 Å°F @Thickness 0.118 in	
Deflection Temperature at 1.8 MPa (264 psi)	177 Å°C	351 Å°F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
	V-0	V-0	

Thermal Properties	@Thickness 6.00 mm Metric	@Thickness 0.236 in English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	6.5	6.5	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	8.86 kV/mm	225 kV/in	Step by Step; ASTM D149
	12.2 kV/mm	310 kV/in	Short Time; ASTM D149
Dissipation Factor	0.080	0.080	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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