

Sumitomo Bakelite Durez® 22257 Phenolic, Injection Grade

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Impact Grade, Filled

Material Notes:

Durez 22257 Black Phenolic is a two-stage, asbestos-free, medium impact molding material. It is designed for appliance and electrical applications where additional mechanical strength is required. Typical applications include circuit breakers, small motor bases and housings, appliance panels, terminal blocks, barrier strips, etc. Durez 22257 is fungus resistant per Mil-I-631D and Mil-810 A/E-2572. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-22257-Phenolic-Injection-Grade.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Apparent Bulk Density	0.570 g/cc	0.0206 lb/in ³	ASTM D1895
Water Absorption	0.60 %	0.60 %	ASTM D570
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Tensile Modulus	7.60 GPa	1100 ksi	ASTM D638
Flexural Strength	69.0 MPa	10000 psi	
Compressive Strength	193 MPa	28000 psi	ASTM D695
Shear Strength	76.0 MPa	11000 psi	as molded
Izod Impact, Notched	0.240 J/cm	0.450 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	42.2 Åµm/m-Å°C @Temperature 23.0 - 60.0 Å°C	23.4 Åµin/in-Å°F @Temperature 73.4 - 140 Å°F	
Specific Heat Capacity	1.42 J/g-Å°C	0.339 BTU/lb-Å°F	
Thermal Conductivity	0.402 W/m-K	2.79 BTU-in/hr-ftÅ²-Å°F	
Maximum Service Temperature, Air	150 Å°C	302 Å°F	UL temperature Index
Deflection Temperature at 1.8 MPa (264 psi)	149 Å°C	300 Å°F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@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	5.5	5.5	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	7.90 kV/mm	201 kV/in	Step by step; ASTM D149
	8.90 kV/mm	226 kV/in	Short Time; ASTM D149
Dissipation Factor	0.080	0.080	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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