

Sumitomo Bakelite Durez® 25378 Phenolic, Injection Grade

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Heat Resistant Grade, Filled

Material Notes:

Durez 25378 Black Phenolic is a two stage heat resistant/electrical grade molding material having an excellent molded finish, low shrinkage and good heat resistance. Durez 25378 has exceptional UL flammability ratings and good comparative tracking index. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-25378-Phenolic-Injection-Grade.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ASTM D792
Apparent Bulk Density	0.680 g/cc	0.0246 lb/in ³	ASTM D1895
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.0085 cm/cm	0.0085 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ASTM D638
Tensile Modulus	13.1 GPa	1900 ksi	ASTM D638
Flexural Strength	76.0 MPa	11000 psi	
Compressive Strength	145 MPa	21000 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C @Thickness 3.0 mm	302 Â°F @Thickness 0.12 in	UL Temperature Index
Deflection Temperature at 1.8 MPa (264 psi)	190 Â°C	374 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.510 mm	V-0 @Thickness 0.0201 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	5VA @Thickness 3.30 mm	5VA @Thickness 0.130 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	5.6	5.6	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	9.80 kV/mm	249 kV/in	Step by step; ASTM D149
	12.8 kV/mm	325 kV/in	Short Time; ASTM D149
Dissipation Factor	0.060	0.060	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	220 V	220 V	IEC Tracking Index

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