

Sumitomo Bakelite Durez[®] 31906 Phenolic, Compression Grade

Category : Polymer , Thermoset , Phenolic

Material Notes:

Durez 31906 Black Phenolic is an asbestos free, medium impact, molding compound. It is designed for applications where additional mechanical strength is required. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Durez-31906-Phenolic-Compression-Grade.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Apparent Bulk Density	0.550 g/cc	0.0199 lb/in ³	ASTM D1895
Water Absorption	0.40 %	0.40 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Tensile Modulus	8.30 GPa	1200 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	
Compressive Strength	214 MPa	31000 psi	ASTM D695
Izod Impact, Notched	0.347 J/cm	0.650 ft-lb/in	ASTM D256

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)	191 Â°C	376 Â°F	ASTM D648
Flammability, UL94	HB @Thickness 1.5 mm	HB @Thickness 0.059 in	
	HB @Thickness 3.0 mm	HB @Thickness 0.12 in	
	V-0 @Thickness 6.0 mm	V-0 @Thickness 0.24 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	6.0	6.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	10.8 kV/mm	274 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	

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