

Sumitomo Bakelite Durez[®] 31906 Phenolic, Injection 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-Injection-Grade.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Apparent Bulk Density	0.500 g/cc	0.0181 lb/in ³	ASTM D1895
Water Absorption	0.40 %	0.40 %	ASTM D570
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	59.0 MPa	8560 psi	ASTM D638
Tensile Modulus	7.60 GPa	1100 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	
Compressive Strength	221 MPa	32100 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 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	6.5	6.5	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	9.80 kV/mm	249 kV/in	Step by step; ASTM D149
	11.8 kV/mm	300 kV/in	Short Time; ASTM D149
Dissipation Factor	0.080	0.080	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China