

Sumitomo Bakelite Sumikon® PM-9610 Glass-Filled Phenolic, Compression Grade

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Glass Filled

Material Notes:

Sumikon® PM-9610 is a two stage glass fiber and mineral filled black phenolic special purpose molding compound. It is especially designed for applications requiring high strength and higher dimensional stability with excellent heat resistance. Typical applications include brush holders for high temperature, and timing pulleys. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Sumikon-PM-9610-Glass-Filled-Phenolic-Compression-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.02 g/cc	2.02 g/cc	ASTM D792
Bulk Density	0.960 g/cc	0.0347 lb/in ³	ASTM D1895
Water Absorption	0.030 %	0.030 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D6289

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	90.0 MPa	13100 psi	ASTM D638
Tensile Modulus	25.5 GPa	3700 ksi	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Compressive Strength	241 MPa	35000 psi	ASTM D695
Izod Impact, Notched	0.214 J/cm	0.401 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	204 Â°C	399 Â°F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	4.9	4.9	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	5.0	5.0	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	5.1	5.1	

Electrical Properties	Metric @Frequency 60 Hz	English @Frequency 60 Hz	ASTM D150 Comments
Dielectric Strength	9.84 kV/mm	250 kV/in	Step by Step; ASTM D149
	15.0 kV/mm	380 kV/in	Short Time; ASTM D149
Dissipation Factor	0.030	0.030	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.030	0.030	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.040	0.040	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

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