

Sumitomo Bakelite Sumikon® PM-9501 Glass-Filled Phenolic, Compression Grade

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

Material Notes:

Sumikon® PM-9501 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 dimensional stability with excellent heat resistance. Typical applications include brush holders, housings, and heat insulators. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Sumikon-PM-9501-Glass-Filled-Phenolic-Compression-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.76 g/cc	1.76 g/cc	ASTM D792
Bulk Density	0.800 g/cc	0.0289 lb/in ³	ASTM D1895
Bulk Factor	2.3	2.3	ASTM D1895
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D6289

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	83.0 MPa	12000 psi	ASTM D638
Tensile Modulus	13.8 GPa	2000 ksi	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Compressive Strength	220 MPa	31900 psi	ASTM D695
Izod Impact, Notched	0.299 J/cm	0.560 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	UL Temperature Index
	@Thickness 3.00 mm	@Thickness 0.118 in	
Deflection Temperature at 1.8 MPa (264 psi)	204 $\text{Å}^\circ\text{C}$	399 $\text{Å}^\circ\text{F}$	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Thermal Properties	Metric	English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	4.3	4.3	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.7	4.7	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	5.1	5.1	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
	15.7 kV/mm	400 kV/in	Step by Step; ASTM D149
	17.7 kV/mm	450 kV/in	Short Time; ASTM D149
Dissipation Factor	0.010	0.010	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.030	0.030	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.050	0.050	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

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