

Sumitomo Bakelite Sumikon® PM-9640 Glass Filled Phenolic

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

Material Notes:

Two stage glass fiber filled black phenolic. It is especially designed for applications requiring high strength and dimensional stability with excellent heat resistance. PM-9640 is widely used in automotive applications. Typical applications include motor housings, brush holders, and heat insulators. Plasticities available for transfer, and injection molding. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Sumikon-PM-9640-Glass-Filled-Phenolic.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in ³	ASTM D792
Apparent Bulk Density	0.770 g/cc	0.0278 lb/in ³	ASTM D1895
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	120	120	
Tensile Strength, Ultimate	138 MPa	20000 psi	ASTM D638
Tensile Modulus	18.6 GPa	2700 ksi	ASTM D638
Flexural Strength	227 MPa	32900 psi	ASTM D790
Compressive Strength	289 MPa	41900 psi	ASTM D695
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	24.0 Åµm/m-Å°C	13.3 Åµin/in-Å°F	
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	204 Å°C	399 Å°F	ASTM D648
UL RTI, Electrical	150 Å°C	302 Å°F	
Flammability, UL94	V-1	V-1	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-1	V-1	

Thermal Properties	Metric @Thickness 0.800 mm	English @Thickness 0.0315 in	Comments
	V-0	V-0	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	4.3	4.3	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.7 kV/mm	399 kV/in	Step by step; ASTM D149
	17.7 kV/mm	450 kV/in	Short Time; ASTM D149
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	

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