

Menzolit Menzolit® SMC 2300 Unsaturated Polyester UP

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

SMC 2300 is an arc resistance SMC for arc quenching cambers. High fire retardancy SMC for electrical applications .Information Provided by Menzolit

Order this product through the following link:

http://www.lookpolymers.com/polymer_Menzolit-Menzolit-SMC-2300-Unsaturated-Polyester-UP.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	ISO 62
Linear Mold Shrinkage	0.00080 cm/cm	0.00080 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	62.0 MPa @Temperature 22.0 °C	8990 psi @Temperature 71.6 °F	25mm flat samples, compression moulded; ISO 527-4
Tensile Strength, Yield	62.0 MPa @Temperature 22.0 °C	8990 psi @Temperature 71.6 °F	25mm flat samples, compression moulded; ISO 527-4
Elongation at Yield	0.00 %	0.00 %	tensile rupture strain; ISO 527-4
Modulus of Elasticity	12.0 GPa	1740 ksi	25mm flat samples, compression moulded; ISO 527-4
Flexural Strength	150 MPa @Temperature 22.0 °C	21800 psi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Flexural Modulus	11.0 GPa @Temperature 22.0 °C	1600 ksi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Poissons Ratio	0.30	0.30	
Shear Modulus	4.60 GPa	667 ksi	in plane
Charpy Impact, Notched	6.70 J/cm ²	31.9 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 Åµm/m-°C	6.67 Åµin/in-°F	ISO 11359-2

Specific Heat Capacity Thermal Properties	1.10 J/g-Â°C Metric	0.263 BTU/lb-Â°F English	Comments
Thermal Conductivity	0.700 W/m-K	4.86 BTU-in/hr-ftÂ²-Â°F	
Maximum Service Temperature, Air	165 Â°C	329 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 Â°C	>= 392 Â°F	ISO 75-2
Minimum Service Temperature, Air	-40.0 Â°C	-40.0 Â°F	
Glass Transition Temp, Tg	170 Â°C	338 Â°F	ISO 11357-2
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
Oxygen Index	43 %	43 %	ISO 4589-2
Glow Wire Test	960 Â°C	1760 Â°F	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
Dielectric Strength	24.0 kV/mm	610 kV/in	IEC 60243-1
Dissipation Factor	0.010	0.010	IEC 60250
Arc Resistance	>= 180 sec	>= 180 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	135 - 150 Â°C	275 - 302 Â°F	Compression moulding, matched metal die

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