

Menzolit Menzolit® SMC 0650 Unsaturated Polyester UP

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

Material Notes:

SMC 0650 Low pressure SMC for large panels when moulding force becomes critical. Specific moulding pressure < 20 bar. A Special molding procedure is necessary. Information Provided by Menzolit

Order this product through the following link:

http://www.lookpolymers.com/polymer_Menzolit-Menzolit-SMC-0650-Unsaturated-Polyester-UP.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	ISO 62
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	50.0 MPa @Temperature 22.0 °C	7250 psi @Temperature 71.6 °F	25mm flat samples, compression moulded; ISO 527-4
Tensile Strength, Yield	50.0 MPa @Temperature 22.0 °C	7250 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	10.0 GPa	1450 ksi	25mm flat samples, compression moulded; ISO 527-4
Flexural Strength	133 MPa @Temperature 22.0 °C	19300 psi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Flexural Modulus	7.00 GPa @Temperature 22.0 °C	1020 ksi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Poissons Ratio	0.30	0.30	
Shear Modulus	3.80 GPa	551 ksi	in plane
Charpy Impact, Notched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179

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

Thermal Properties	Metric	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	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	22 %	22 %	ISO 4589-2
Glow Wire Test	750 Â°C	1380 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	20.0 kV/mm	508 kV/in	IEC 60243-1
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	120 - 150 Â°C	248 - 302 Â°F	Compression moulding, matched metal die

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