

Menzolit Menzolit[®] MMC 1600 Unsaturated Polyester UP

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass and Mineral Filled BMC

Material Notes:

MMC 1600 is a mineral moulding compound (similar to DMC/BMC) providing of a stone like appearance eg. granite or marble. Chrome plated mould surfaces are required. It is recommended that product thickness is not less than 3mm. Information Provided by Menzolit

Order this product through the following link:

http://www.lookpolymers.com/polymer_Menzolit-Menzolit-MMC-1600-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	0.0016 cm/cm	0.0016 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	12.0 MPa @Temperature 22.0 °C	1740 psi @Temperature 71.6 °F	25mm flat samples, compression moulded; ISO 527-4
Tensile Strength, Yield	12.0 MPa @Temperature 22.0 °C	1740 psi @Temperature 71.6 °F	25mm flat samples, compression moulded; ISO 527-4
Modulus of Elasticity	6.00 GPa	870 ksi	25mm flat samples, compression moulded; ISO 527-4
Flexural Strength	30.0 MPa @Temperature 22.0 °C	4350 psi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Flexural Modulus	6.00 GPa @Temperature 22.0 °C	870 ksi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Poissons Ratio	0.30	0.30	
Shear Modulus	2.30 GPa	334 ksi	in plane
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 µm/m-°C	5.56 µin/in-°F	ISO 11359-2
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	

Thermal Properties	Metric W/m-K	English 4.86 BTU-in/hr-ft ² -°F	Comments
Maximum Service Temperature, Air	170 Â°C	338 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 240 Â°C	>= 464 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	35 %	35 %	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+14 ohm	1.00e+14 ohm	IEC 60093
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	145 - 165 Â°C	293 - 329 Â°F	Compression moulding, matched metal die

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