

## Menzolit Menzolit<sup>®</sup> SMC 1600 Unsaturated Polyester UP

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

### Material Notes:

SMC 1600 is a special SMC for sanitary applications. The glass level has been selected to combine good mouldability with good strength and stiffness properties. The material shows an increased resistance to a wet environment and common household cleaning materials.

Typical applications are bath room furnitures, bath tubes and shower pans. Information Provided by Menzolit

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Menzolit-Menzolit-SMC-1600-Unsaturated-Polyester-UP.php](http://www.lookpolymers.com/polymer_Menzolit-Menzolit-SMC-1600-Unsaturated-Polyester-UP.php)

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in <sup>3</sup>	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	ISO 62
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	56.0 MPa @Temperature 22.0 °C	8120 psi @Temperature 71.6 °F	25mm flat samples, compression moulded; ISO 527-4
Tensile Strength, Yield	56.0 MPa @Temperature 22.0 °C	8120 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	11.0 GPa	1600 ksi	25mm flat samples, compression moulded; ISO 527-4
Flexural Strength	136 MPa @Temperature 22.0 °C	19700 psi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Flexural Modulus	8.00 GPa @Temperature 22.0 °C	1160 ksi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Poissons Ratio	0.30	0.30	
Shear Modulus	4.20 GPa	609 ksi	in plane
Charpy Impact, Notched	6.10 J/cm <sup>2</sup>	29.0 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
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CTE linear Thermal Properties	Metric	English	ISO 11359-2 Comments
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	
Thermal Conductivity	0.700 W/m-K	4.86 BTU-in/hr-ft <sup>2</sup> - °F	
Maximum Service Temperature, Air	165 °C	329 °F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 °C	>= 392 °F	ISO 75-2
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Glass Transition Temp, Tg	170 °C	338 °F	ISO 11357-2
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Oxygen Index	30 %	30 %	ISO 4589-2
Glow Wire Test	750 °C	1380 °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
Comparative Tracking Index	600 V	600 V	IEC 60112

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China