

Menzolit Menzolit® BMC 3000 Unsaturated Polyester UP

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

Material Notes:

BMC 3000 is a special BMC suitable for the use in microwave and cookware applications. It has high temperature resistance, and meets requirements for food contact applications. It has a high gloss finish. Information Provided by Menzolit

Order this product through the following link:

http://www.lookpolymers.com/polymer_Menzolit-Menzolit-BMC-3000-Unsaturated-Polyester-UP.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	ISO 62
Linear Mold Shrinkage	-0.000300 cm/cm	-0.000300 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	23.0 MPa @Temperature 22.0 Â°C	3340 psi @Temperature 71.6 Â°F	25mm flat samples, compression moulded; ISO 527-4
Tensile Strength, Yield	23.0 MPa @Temperature 22.0 Â°C	3340 psi @Temperature 71.6 Â°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	14.0 GPa	2030 ksi	25mm flat samples, compression moulded; ISO 527-4
Flexural Strength	74.0 MPa @Temperature 22.0 Â°C	10700 psi @Temperature 71.6 Â°F	25 mm wide 100 mm long, flat samples; ISO 14125
Flexural Modulus	11.0 GPa @Temperature 22.0 Â°C	1600 ksi @Temperature 71.6 Â°F	25 mm wide 100 mm long, flat samples; ISO 14125
Poissons Ratio	0.30	0.30	
Shear Modulus	5.40 GPa	783 ksi	in plane
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 Âµm/m-Â°C	5.56 Âµin/in-Â°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	180 Â°C	356 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 150 Â°C	>= 302 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	30.0 kV/mm	762 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 - 160 Â°C	275 - 320 Â°F	Injection moulding, matched metal die

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