

Menzolit Menzolit[®] BMC 2310 Unsaturated Polyester UP

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

Material Notes:

BMC 2310 is a chemically resistant grade reinforced with special fibres. Being completely glass-free (no glass fibre reinforcement) it is specifically recommended for the manufacture of high voltage switchgear where SF6 is used to quench the arc. The specific fibre used is not affected by SF6 gas whereas glass fibre may erode away. Information Provided by Menzolit

Order this product through the following link:

http://www.lookpolymers.com/polymer_Menzolit-Menzolit-BMC-2310-Unsaturated-Polyester-UP.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	ISO 62
Linear Mold Shrinkage	0.0018 cm/cm	0.0018 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	20.0 MPa @Temperature 22.0 °C	2900 psi @Temperature 71.6 °F	25mm flat samples, compression moulded; ISO 527-4
Tensile Strength, Yield	20.0 MPa @Temperature 22.0 °C	2900 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	9.00 GPa	1310 ksi	25mm flat samples, compression moulded; ISO 527-4
Flexural Strength	45.0 MPa @Temperature 22.0 °C	6530 psi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Flexural Modulus	10.0 GPa @Temperature 22.0 °C	1450 ksi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Poissons Ratio	0.30	0.30	
Shear Modulus	3.50 GPa	508 ksi	in plane
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	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-Å°C	0.263 BTU/lb-Å°F	
Thermal Conductivity	0.700 W/m-K	4.86 BTU-in/hr-ftÅ²-Å°F	
Maximum Service Temperature, Air	165 Å°C	329 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 Å°C	>= 392 Å°F	ISO 75-2
Minimum Service Temperature, Air	-40.0 Å°C	-40.0 Å°F	
Glass Transition Temp, Tg	165 Å°C	329 Å°F	ISO 11357-2
Oxygen Index	36 %	36 %	ISO 4589-2

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
Arc Resistance	>= 185 sec	>= 185 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	IEC 60112

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

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