

Menzolit MenzolitÂ® BMC 2800 Unsaturated Polyester UP

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

Material Notes:

BMC 2800 is a high performance BMC for matching the demands of medium and high voltage applications in the electrical field especially in respect of RTI 160+ according to Underwriters Laboratories UL 746B. The materials covered by this program have, in many cases, been investigated with respect to retention of certain critical properties (e.g. dielectric, tensile, impact, and the like) as part of a long-time thermal-aging program conducted in accordance with Underwriters Laboratories Inc. Standard for Polymeric Materials-Long Term Property Evaluations, UL 746B. Information Provided by Menzolit

Order this product through the following link:

http://www.lookpolymers.com/polymer_Menzolit-Menzolit-BMC-2800-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	0.0018 cm/cm	0.0018 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Elongation at Yield	0.00 %	0.00 %	tensile rupture strain; ISO 527-4
Flexural Strength	80.0 MPa @Temperature 22.0 Â°C	11600 psi @Temperature 71.6 Â°F	25 mm wide 100 mm long, flat samples; ISO 14125
Flexural Modulus	10.0 GPa @Temperature 22.0 Â°C	1450 ksi @Temperature 71.6 Â°F	25 mm wide 100 mm long, flat samples; ISO 14125
Poissons Ratio	0.30	0.30	
Charpy Impact, Notched	2.50 J/cm ²	11.9 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
Specific Heat Capacity	1.10 J/g-Â°C	0.263 BTU/lb-Â°F	
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

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	170 Â°C	338 Â°F	ISO 11357-2
Oxygen Index	>= 34 %	>= 34 %	ISO 4589-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Strength	10.0 kV/mm	254 kV/in	IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	135 - 155 Â°C	275 - 311 Â°F	Injection - Compression moulding, matched metal die

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