

Menzolit® BMC 2800

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 2800 is a bulk moulding compound based on unsaturated polyester resin. The product is glass fibre reinforced and contains mineral fillers. In case of fire the product doesn't melt, neither does it form droplets nor is smoke generation excessive. The material is injection moulded in heated steel moulds. It is recommended to work with chrome plated tools. The product contains no halogens.

Menzolit® 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.

General Information			
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight		
Features	Halogen Free		
	Low Smoke Emission		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm ³	ISO 1183
Molding Shrinkage			
-- ¹	0.0	%	DIN 53464
--	0.18	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	10000	MPa	ISO 14125
Flexural Stress	80.0	MPa	ISO 14125
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	25	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 200	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+12	ohms · cm	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	> 34	%	ISO 4589-2
Additional Information	Nominal Value	Test Method	
Fiber Content	30.0	ISO 1172	
Material Designation	>UP-(GF+MD)72FR(60)<	EN 14598-1	

Injection	Nominal Value	Unit
Mold Temperature	135 to 155	°C
NOTE		
1.	Post Molding Shrinkage	

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Recommended distributors for this material

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