Menzolit® BMC 2500

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 2500 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 2500 is a special BMC for high voltage isolating applications. The glass content is set to a level that combines good mouldability with good strength and stiffness properties. The fire retardancy level HB according to the UL 94 is achieved. The electrical properties are improved to have exceptional high isolation properties. When moulding this material, a high moulding pressure is important to achieve a well densified material matrix to guarantee high voltage applications. Typical applications are isolating components in high voltage applications.

General Information			
Filler / Reinforcement	Glass\Mineral,20% Filler by Weight		
Features	Flame Retardant Good Electrical Properties Good Moldability Good Stiffness Good Strength Halogen Free High Heat Resistance Low Smoke Emission		
Uses	Electrical/Electronic Applications		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)72<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.90	g/cm³	ISO 1183
Molding Shrinkage			
--	0.50	%	ISO 2577
-- [1]	0.0	%	DIN 53464
Water Absorption (Saturation, 23°C)	< 0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	13000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	31.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	10000	MPa	ISO 178
Flexural Stress (Compression Molded)	100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Compression Molded)	23	kJ/m²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 150	°C	ISO 75-2/A
Continuous Use Temperature	180	°C	Internal Method
Glass Transition Temperature	185	°C	DSC
CLTE - Flow	1.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Dissipation Factor	0.010		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.00 mm)	HB		UL 94
Oxygen Index	22	%	ISO 4589-2
Injection	**Nominal Value**	**Unit**	
Mold Temperature	135 to 150	°C	
Injection Pressure	2.00 to 8.00	MPa	
NOTE			
1.	Post Molding Shrinkage		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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