Menzolit® BMC 2600

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 2600 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 2600 is a special BMC with reduced electrical properties. The glass content is set to a level that combines good mouldability with good strength and stiffness properties. Because of its improved contactivity the product prevents building ups of electrical charges on the surface. At the same time the isolation properties are good enough to provide sufficient isolation. Typical applications are housings and covers in the communications industry, gas or oil exploration industry and mining equipment.

General Information	
Filler / Reinforcement	Glass\Mineral,18% Filler by Weight
Features	Antistatic Conductive Flame Retardant Good Moldability Good Stiffness Good Strength Halogen Free High Heat Resistance Low Smoke Emission
Uses	Communication Applications Housings Mining Applications
Forms	BMC - Bulk Molding Compound
Processing Method	Injection Molding
Part Marking Code (ISO 11469)	>UP-(MD+GF)71<

Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm³	ISO 1183
Molding Shrinkage			
--	0.90	%	ISO 2577
-- [1]	0.0	%	DIN 53464
Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	13000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	25.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	10000	MPa	ISO 178
Flexural Stress (Compression Molded)	75.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Compression Molded)	20	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	165	°C	Internal Method
Glass Transition Temperature	170	°C	DSC
CLTE - Flow	1.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+8	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**
Flame Rating (3.00 mm)	V-0		UL 94
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
Oxygen Index	32	%	ISO 4589-2
Additional Information	**Nominal Value**		**Test Method**
Glow Bar	Level BH 2 <= 10		IEC 60707-3
Injection	**Nominal Value**	**Unit**	
Mold Temperature	135 to 155	°C	
Injection Pressure	2.00 to 8.00	MPa	
NOTE			
1.	Post Molding Shrinkage		

Recommended distributors for this material

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