Menzolit® BMC 1000

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 1000 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 1000 is a special BMC for hydrolysis resistant applications. The glass content is set to a level that provides sufficient mouldability with high strength and stiffness properties. Typical applications are components which are exposed to a humid environment. Housings, covers and functional components which are exposed to water or wet atmosphere, like in tropic countries or plant equipment, are typical examples for the use of this material.

General Information			
Filler / Reinforcement	Glass\Mineral,25% Filler by Weight		
Features	Flame Retardant Good Moldability Good Stiffness Good Strength Halogen Free High Heat Resistance Hydrolysis Resistant Low Smoke Emission		
Uses	Housings		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)70<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.80	g/cm³	ISO 1183
Molding Shrinkage			
--	0.15	%	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)	36.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	10000	MPa	ISO 178
Flexural Stress (Compression Molded)	120	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Compression Molded)	30	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	150	°C	Internal Method
Glass Transition Temperature	125	°C	DSC
CLTE - Flow	1.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (3.00 mm)	HB		UL 94
Glow Wire Ignition Temperature	750	°C	IEC 60695-2-13
Oxygen Index	22	%	ISO 4589-2
Additional Information	**Nominal Value**		**Test Method**
Glow Bar	Level BH 2 <= 95		IEC 60707-3
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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