Menzolit® BMC 1100

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 1100 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 compression moulded in heated steel moulds. It is recommended to work with chrome plated tools. The product contains no halogens.
Menzolit® BMC 1100 is a special BMC for high strength application. The glass content is set to a level that provides sufficient mouldability with high strength and stiffness properties. The selection of the resin and glass fibres provide good properties at high mechanical loads even if they are cyclic or impact like. The fire retardancy level HB according to the UL 94 is achieved. Typical applications are functional components for the automotive industry and chemical engineering. The material is especially suited for highly loaded or fast moving components.

General Information			
Filler / Reinforcement	Glass\Mineral,26% Filler by Weight		
Features	Flame Retardant Good Moldability Good Stiffness Good Strength Halogen Free High Heat Resistance Low Smoke Emission		
Uses	Automotive Applications Engineered Applications		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)69<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.80	g/cm³	ISO 1183
Molding Shrinkage			
--	0.30	%	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)	40.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	9000	MPa	ISO 178
Flexural Stress (Compression Molded)	130	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (Compression Molded)	35	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	170	°C	Internal Method
Glass Transition Temperature	162	°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 160	°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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Phone: +86 13424755533

Email: sales@su-jiao.com

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