Menzolit® BMC 1400

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 1400 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 nor any heavy metals.
Menzolit® BMC 1400 is a special BMC for the use on an engine. The glass content is set to a level that combines good mouldability with good strength and stiffness properties. The product has been developped fot high resistance against gasoline, lubricants, cooling agents or cleaning agents that are used around an automotive engine. Because of its resin matrix it is especially resistant to cyclic loads under elevated temperature. Typical applications are valve covers, gear box covers, carburator housings, or housings for auxiliary motors.

General Information	
UL YellowCard	E74481-249687
Filler / Reinforcement	Glass\Mineral,25% Filler by Weight
Features	Flame Retardant Good Chemical Resistance Good Moldability Good Stiffness Good Strength Halogen Free High Heat Resistance Hydrocarbon Resistant Low Smoke Emission
Uses	Automotive Under the Hood Electric Motor Housings
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			
--	0.30	%	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)	37.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	10000	MPa	ISO 178

Flexural Stress (Compression Molded)	125	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Compression Molded)	35	kJ/m^2	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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