Menzolit® BMC 0400

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 0400 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 0400 is a low profile DMC/BMC for automotive applications. It fulfils the requirements of the automotive industry regarding painted body panels including reduced C-emissions. For highest surface quality we recommend processing on mirror finish chrome-plated steel moulds. The material shows a high thermal resistance for on-line painting at 190- 200 °C. Adhesion of paint is excellent. The material doesn't shrink during moulding, it even expands. Therefore warpage is reduced and dimensional stability is excellent.

General Information			
Filler / Reinforcement	Glass\Mineral,25% Filler by Weight		
Features	Flame Retardant Good Adhesion Good Dimensional Stability Halogen Free High Heat Resistance Low Shrinkage Low Smoke Emission Low Warpage		
Uses	Automotive Applications		
Appearance	Cream		
Forms	BMC - Bulk Molding Compound		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)75<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.90	g/cm³	ISO 1183
Molding Shrinkage			
-- [1]	0.0	%	DIN 53464
--	-0.050	%	ISO 2577
Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	14000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	36.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	1.0	%	ISO 527-2
Flexural Modulus (Compression Molded)	11000	MPa	ISO 178
Flexural Stress (Compression Molded)	120	MPa	ISO 178
Poisson's Ratio	0.30		Internal Method

Matrix Crazing Strain	0.30	%	Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Compression Molded)	30	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	170	°C	DSC
CLTE - Flow	1.0E-5	cm/cm/°C	ISO 11359-2
Flammability	**Nominal Value**		**Test Method**
Flame Rating (3.00 mm)	HB		UL 94
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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