

Menzolit® BMC 0390

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 0390 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 0390 is a low profile DMC/BMC. Because of its low shrinkage, the material shows good surface quality as well as very low warpage. The product is suitable for applications if a better surface quality is necessary that cannot be achieved with low shrink material. Because of the low shrinkage, tool design is more difficult and the user should take care to allow proper part ejection from mould. Typical applications are housings or covers that call for improved surface quality and dimensional stability. Because of this painting may be desired. Paint adhesion of appropriate paint systems is very good. Chrome plating of punch and cavity surfaces is recommended.

General Information			
Filler / Reinforcement	Glass\Mineral,25% Filler by Weight		
Features	Flame Retardant		
	Good Adhesion		
	Good Dimensional Stability		
	Good Surface Finish		
	Halogen Free		
	High Heat Resistance		
	Low Shrinkage		
	Low Smoke Emission		
	Low Warpage		
Uses	Housings		
Appearance	Colors Available		
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
--	-0.030	%	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
Flexural Modulus (Compression Molded)	11000	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/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	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+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		

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Recommended distributors for this material

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