

# Menzolit® BMC 0300

Thermoset Polyester

Menzolit Ltd (UK)

## Message:

Menzolit® BMC 0300 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 0300 is a low shrink standard material for general-purpose applications, which require a higher level on surface quality and better dimensional stability. The glass content is on a level that combines good mould ability with good strength and stiffness properties. Typical applications are housings and covers in the electric industry, components for household appliances and office equipment. Due to reduced shrinkage warpage is reduced and a homogeneous colouration is possible.

General Information			
UL YellowCard	E74481-249684	E74481-249685	E74481-249686
Filler / Reinforcement	Glass\Mineral,20% Filler by Weight		
Features	Flame Retardant		
	General Purpose		
	Good Dimensional Stability		
	Good Moldability		
	Good Stiffness		
	Good Strength		
	Good Surface Finish		
	Halogen Free		
	High Heat Resistance		
	Low Shrinkage		
	Low Smoke Emission		
Uses	Appliances		
	Electrical Housing		
	Electrical/Electronic Applications		
	General Purpose		
Appearance	Colors Available		
Forms	BMC - Bulk Molding Compound		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)73<		
Physical	Nominal Value	Unit	Test Method
Density	1.90	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			
-- <sup>1</sup>	0.0	%	DIN 53464
--	0.080	%	ISO 2577

Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus (Compression Molded)	13000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	31.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	10000	MPa	ISO 178
Flexural Stress (Compression Molded)	101	MPa	ISO 178
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength (Compression Molded)	29	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (3.00 mm)	HB		UL 94
Glow Wire Ignition Temperature	750	°C	IEC 60695-2-13
Oxygen Index	22	%	ISO 4589-2
<b>Additional Information</b>	<b>Nominal Value</b>		<b>Test Method</b>
Glow Bar	Level BH 2 <= 95		IEC 60707-3
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Mold Temperature	135 to 150	°C	
Injection Pressure	2.00 to 8.00	MPa	
<b>NOTE</b>			
1.	Post Molding Shrinkage		

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#### Recommended distributors for this material

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