

Menzolit® BMC 1650

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 1650 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 1650 is a specially designed anti-microbial polyester moulding compound which incorporates a "germ killer". It has been tested and found to be compliant for resistance to fungal defacement in accordance with the Standard test method BS EN ISO 846:1997. "Plastics - Evaluation of the Action of Microorganisms", and for resistance to bacterial defacement in accordance with the Standard test method "JIS Z 2801:2000. "Antimicrobial products - Test for antimicrobial activity and efficacy".AP61. Specific applications are parts within health care or sanitary equipment or furnituresThe glass content is on a level that combines good mould ability with good strength and stiffness properties. The compound is available in a variety of sanitary colours, for availability please contact your local menzolit team.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight Mineral		
Additive	Antimicrobial (Fungicide)		
Features	Good Moldability		
	Good Stiffness		
	Good Strength		
	Halogen Free		
	Low Smoke Emission		
Agency Ratings	ISO 846		
	JIS Z2801		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.90	g/cm ³	ISO 1183
Molding Shrinkage			
--	0.080	%	ISO 2577
-- ¹	0.0	%	DIN 53464
Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-4
Tensile Stress (Break)	31.0	MPa	ISO 527-4
Flexural Modulus	10000	MPa	ISO 14125
Flexural Stress	101	MPa	ISO 14125
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	29	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	
Glass Transition Temperature	170	°C	ISO 11357-2
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	Unit	Test Method
Fiber Content	20	%	ISO 1172
Glow Bar	BH2 ≤ 95		IEC 60707-3
Material Designation	>UP-(MD+GF)73<		EN 14598-1
Injection	Nominal Value	Unit	
Mold Temperature	135 to 150	°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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