

# Menzolit® MMC 1600

Thermoset Polyester

Menzolit Ltd (UK)

## Message:

Menzolit® MMC 1600 is a mineral 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 compression moulded in heated steel moulds. It is must to work with chrome plated moulds. The product contains no halogens.

Menzolit® MMC 1600 is a mineral moulding compound (similar to DMC/BMC) providing of a stone like appearance eg. granite or marble. Chrome plated mould surfaces are required. It is recommended that product thickness is not less than 3mm.

General Information			
Filler / Reinforcement	Glass\Mineral, 15% Filler by Weight		
Features	Halogen Free		
	High Heat Resistance		
	Low Smoke Emission		
Uses	Sanitary Products		
	Table Products		
Appearance	Colors Available		
	Grey		
Processing Method	Compression Molding		
Part Marking Code (ISO 11469)	>UP-(GF+QB+MD)65FR(60)<		
Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.16	%	ISO 2577
Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62
Post Shrinkage	0.0	%	DIN 53464
Glow Bar	BH2 <= 10		IEC 60707-3
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	6000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	12.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	6000	MPa	ISO 178
Flexural Stress (Compression Molded)	30.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Compression Molded)	9.0	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 240	°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
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	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)	V-0		UL 94
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
Oxygen Index	35	%	ISO 4589-2
Injection	Nominal Value	Unit	
Mold Temperature	145 to 165	°C	
Injection Pressure	8.00 to 10.0	MPa	

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#### Recommended distributors for this material

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