



Data Sheet

Menzolit® BMC 1000

Product identification

Date issued : 1.9.2004

Menzolit® BMC 1000 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.

Product description

Menzolit® BMC 1000 is a special BMC for hydrolysis resistant applications. The glass content is set to a level that provides sufficient mouldability with high strength and stiffness properties. Typical applications are components which are exposed to a humid environment. Housings, covers and functional components which are exposed to water or wet atmosphere, like in tropic countries or plant equipment, are typical examples for the use of this material.

Physical properties

Physical properties	Standards	Units	
Material code	ISO 11469	--	>UP-(MD+GF)70<
Fibre Content UD / total	EN ISO 1172	%	25
Moulding Temperature	M	°C	135-150
Moulding Pressure	M	bar	20-80
Density	ISO 1183	g/cm**3	1,80
Shrinkage 1)	ISO 2577	%	0,15
Post Moulding Shrinkage	DIN 53464	%	0,00
CTE	ISO 11359-2	10**-6m/m.K	10,00
Heat Distortion Temp.	EN ISO 75-2	°C	>150
Glass Transition Temp.	ISO 11357-2	°C	125
Continuous Service Temp.	M	°C	150
Young's Modulus	EN ISO 527-4	GPa	13
Tensile Strength	EN ISO 527-4	MPa	36
Flex Strength	EN ISO 14125	MPa	120
Flex Modulus	EN ISO 14125	GPa	10
Impact Strength	EN ISO 179	kJ/m**2	30
Limited Oxygen Index	EN ISO 4589-2	%	22,00
Glow Bar	IEC 60707-3	Level	BH 2 <= 95
Fire Retardancy	UL 94	mm & Level	3 mm, HB
Glow Wire	IEC 60965-2-1	°C	750
Volume Resistivity	IEC 60093	Ohm*cm	1,00E+15
Surface Resistivity	IEC 60093	Ohm	1,00E+12
Comperative Tracking Index	IEC 60112	Level	CTI600
Water Absorption	ISO 62	%	< 0,3

Form of supply

1) Negative values indicate expansion.

Menzolit® BMC 1000 is packaged in styrene tight bags and placed in cardboard or wooden boxes. Various kinds of packaging available. For further details ask our technical service team. It is available in all colours.

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Properties given are the mean value of test results, and taken from non pigmented, compression moulded panels at room temperature. Our products are manufactured according to ISO 9000 standards, a Safety Data Sheet according to 91/155/EEC is available.

Notice: We make no warranty or representation as to the suitability of the product or information herein for any particular application. The determination of the suitability of the above information for any particular use is solely the responsibility of the user. For further information please contact your local Menzolit Technical Service Team for assistance or see www.menzolit.com.