



## Data Sheet

### Menzolit® SMC 2600

#### Product identification

Date issued : 1.9.2004

Menzolit® SMC 2600 is a sheet 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 recommended to work with chrome plated tools. The product contains no halogens.

#### Product description

Menzolit® SMC 2600 is a special SMC with electrically conductive properties. Because of its conductivity, SMC 2600 is antistatic and prevents build-up of electrical charges on the surface. Despite of its conductivity the electrical properties are still good enough to provide an electrical isolation to power circuits. The glass level has been selected to combine good mouldability with good strength and stiffness properties. Typical applications are housings and covers within telecommunication, electrical industry, office equipment as well as ex-proof applications within the mining or oil/gas exploration industry.

#### Physical properties

Physical properties	Standards	Units	
Material code	ISO 11469	--	>UP-(MD+GF)67<
Fibre Content UD / total	EN ISO 1172	%	30
Moulding Temperature	M	°C	135-150
Moulding Pressure	M	bar	80-100
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	12,00
Heat Distortion Temp.	EN ISO 75-2	°C	>200
Glass Transition Temp.	ISO 11357-2	°C	170
Continuous Service Temp.	M	°C	165
Young's Modulus	EN ISO 527-4	GPa	12
Tensile Strength	EN ISO 527-4	MPa	75
Flex Strength	EN ISO 14125	MPa	179
Flex Modulus	EN ISO 14125	GPa	10
Impact Strength	EN ISO 179	kJ/m**2	81
Limited Oxygen Index	EN ISO 4589-2	%	30,00
Glow Bar	IEC 60707-3	Level	BH 2 <= 10
Glow Wire	IEC 60965-2-1	°C	960,00
Fire Retardancy	UL 94	mm & Level	3 mm, V0
Volume Resistivity	IEC 60093	Ohm*cm	1,00E+11
Surface Resistivity	IEC 60093	Ohm	1,00E+08
Comperative Tracking Index	IEC 60112	Level	CTI600
Water Absorption	ISO 62	%	< 0,5

#### Form of supply

1) Negative values indicate expansion.

Menzolit® SMC 2600 is produced in a standard width of 1500 mm. It is supplied on rolls holding about 350 kg. It is possible to have it folded and packed in cardboard/wooden crates. In any case a styrene barrier film wrapping is being used. For alternative packaging please contact our technical service team. Available in black colour only.

**menzolit** is a registered trademark.

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](http://www.menzolit.com).