Menzolit® SMC 1400

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 1400 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 nor heavy metals.
Menzolit® SMC 1400 is a special SMC being used in the environment of a combustion engine. The glass level has been selected to combine good mouldability with good stiffness and strength properties. The product shows an excellent resistance to common fuels, lubricants, cooling liquids and cleaning materials. Because of its specific matrix resin it is suitable for cyclic loads at higher service temperatures. Typical applications are valve covers, camshaft drive covers, gear box covers as well as oil pans or housings for auxiliary drive systems.

General Information			
UL YellowCard	E120779-100135648		
Filler / Reinforcement	Glass\Mineral,35% Filler by Weight		
Features	Flame Retardant Good Moldability Good Stiffness Halogen Free High Heat Resistance High Strength Low Smoke Emission		
Uses	Automotive Applications Valves/Valve Parts		
Appearance	Colors Available		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Part Marking Code (ISO 11469)	>VE-(MD+GF)72<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.90	g/cm³	ISO 1183
Molding Shrinkage			
-- [1]	0.0	%	DIN 53464
--	0.030	%	ISO 2577
Water Absorption (Saturation, 23°C)	< 0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	10000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	130	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	1.6	%	ISO 527-2
Flexural Modulus (Compression Molded)	10000	MPa	ISO 178

Flexural Stress (Compression Molded)	250	MPa	ISO 178
Compressive Stress	140	MPa	ISO 14126
Poisson's Ratio	0.30		Internal Method
Matrix Crazing Strain	0.50	%	Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Compression Molded)	100	kJ/m^2	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 200	°C	ISO 75-2/A
Continuous Use Temperature	170	°C	Internal Method
Glass Transition Temperature	162	°C	DSC
CLTE - Flow	1.2E-5	cm/cm/°C	ISO 11359-2
Flammability	**Nominal Value**		**Test Method**
Flame Rating (3.00 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Mold Temperature	135 to 160	°C	
Injection Pressure	8.00 to 10.0	MPa	
NOTE			
1.	Post Molding Shrinkage		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

Email: sales@su-jiao.com

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