

Menzolit® SMC 0900

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 0900 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.

Menzolit® SMC 0900 is a special SMC for use within a chemical aggressive environment. The glass level is selected to combine good mouldability with good strength and stiffness properties. The product is especially suitable for components or housings which are being used in an chemical aggressive environment. Within such an environment temperature, temperature cycle and chemistry play a very important roll. Since this environment is very difficult to describe, we recommend that the user consults our chemical resistance list and contacts our technical service team prior to use. Typical applications are pumps, armatures and housings within chemical plants or offshore platforms.

General Information			
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Moldability		
	Good Stiffness		
	Good Strength		
	Halogen Free		
	High Heat Resistance		
	Low Smoke Emission		
Uses	Housings		
	Industrial Applications		
	Pump Parts		
Appearance	Colors Available		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)65<		
Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm ³	ISO 1183
Molding Shrinkage			
-- ¹	0.0	%	DIN 53464
--	0.080	%	ISO 2577
Water Absorption (Saturation, 23°C)	< 0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	11000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	76.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	9000	MPa	ISO 178

Flexural Stress (Compression Molded)	166	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Compression Molded)	75	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	140	°C	Internal Method
Glass Transition Temperature	125	°C	DSC
CLTE - Flow	1.2E-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)	V-0		UL 94
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
Oxygen Index	30	%	ISO 4589-2
Additional Information	Nominal Value		Test Method
Glow Bar	Level BH 2 ≤ 10		IEC 60707-3
Injection	Nominal Value	Unit	
Mold Temperature	135 to 150	°C	
Injection Pressure	8.00 to 10.0	MPa	
NOTE			
1.	Post Molding Shrinkage		

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