Menzolit® SMC 2300

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 2300 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 2300 Arc resistance SMC for arc quenching cambers. High fire retardancy SMC for electrical applications.

General Information			
UL YellowCard	E74481-249691		
Filler / Reinforcement	Glass\Mineral,25% Filler by Weight		
Features	Flame Retardant Halogen Free High Heat Resistance Low Smoke Emission		
Uses	Electrical/Electronic Applications		
Appearance	Colors Available		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)73<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.80	g/cm³	ISO 1183
Molding Shrinkage			
-- [1]	0.0	%	DIN 53464
--	0.080	%	ISO 2577
Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	12000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	62.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	11000	MPa	ISO 178
Flexural Stress (Compression Molded)	150	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Compression Molded)	67	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 200	°C	ISO 75-2/A
Continuous Use Temperature	165	°C	Internal Method
Glass Transition Temperature	170	°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
Arc Resistance	> 180	sec	ASTM D495
Comparative Tracking Index	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
Oxygen Index	43	%	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		

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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