Menzolit® SMC 2400

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 2400 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 2400 is a SMC with extraordinary fire retardancy. The glass level has been selected to combine mouldability with strength and stiffness properties. The fire retardancy is especially high, and the material is virtually nonburnable. In case of fire smoke is released to a small extent. Smoke is, except for carbon monoxyde non-toxic! This makes SMC 2400 very suitable for railway interior or exterior applications, like wall panels, window frames, lugage bins, seat shells and structures or similar rail way components. Fire safe furniture or sanitary furniture on ships, trains or prison cells are another typical use. Within the electrical industry it is used for arc quenching chambers or switch gear components that are exposed to high power switching operations and resulting electrical arcs (peak loads of temperature and fire).

General Information			
Filler / Reinforcement	Glass\Mineral,25% Filler by Weight		
Features	Flame Retardant Good Moldability Good Stiffness Good Strength Halogen Free High Heat Resistance Low Smoke Emission		
Uses	Electrical/Electronic Applications Furniture		
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	1.90	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)	9000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	58.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	9000	MPa	ISO 178
Flexural Stress (Compression Molded)	140	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (Compression Molded)	70	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
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	70	%	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

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