Menzolit® SMC 0290

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 0290 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 0290 is a specially formulated SMC processable by injection moulding. The gentle production process prevents the fiber from any damage. Parts made of SMC 0290 reach higher levels of strength and stiffness than BMC types. Thus, the material is favoured in those fields of application where BMC doesn't meet the demands regarding mechanical properties. SMC 0290 is serialized with a flammability of category V0 according to UL 94. Yellow Card is available for any tone! The glass content is on a level that combines good mouldability with good mechanical properties regarding strength and stiffness.

General Information			
UL YellowCard	E120779-100101994		
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 Housings		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)68<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.70	g/cm³	ISO 1183
Molding Shrinkage			
-- [1]	0.0	%	DIN 53464
--	0.10	%	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)	60.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	10000	MPa	ISO 178
Flexural Stress (Compression Molded)	143	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (Compression Molded)	64	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
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	32	%	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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