Menzolit® SMC 0520

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 0520 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 0520 is a special SMC with significantly reduced density. The glass level has been selected to combine good moulding with sufficient strength and stiffness properties. Even without a specific fire retardant the fire retardancy level HB according the UL 94 is achieved. The product is suitable especially for applications calling for low weight and durability. Another typical application are isolating panels or mouldings that require higher strength and stiffness then standard isolating materials could provide.

General Information			
Filler / Reinforcement	Glass\Mineral,15% Filler by Weight		
Features	Durable Flame Retardant Good Moldability Good Stiffness Good Strength Halogen Free High Heat Resistance Low Density Low Molecular Weight Low Smoke Emission		
Appearance	Colors Available		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF+GB)39<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.810	g/cm³	ISO 1183
Molding Shrinkage			
-- [1]	0.0	%	DIN 53464
--	0.030	%	ISO 2577
Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	3000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	13.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	3000	MPa	ISO 178
Flexural Stress (Compression Molded)	50.0	MPa	ISO 178
Poisson's Ratio	0.30		Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (Compression Molded)	19	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	1.4E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.30	W/m/K	ISO 8302
Injection	**Nominal Value**	**Unit**	
Mold Temperature	135 to 155	°C	
Injection Pressure	3.00 to 7.00	MPa	
NOTE			
1.	Post Molding Shrinkage		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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