Menzolit® SMC 0400

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 0400 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 a must to work with chrome plated tools. The product contains no halogens or heavy metals.
Menzolit® SMC 0400 is a Class-A SMC for exterior body applications on cars, LCV´s and trucks. These compounds mould to parts with good up to excellent surface quality for medium bake in-line and off-line painted (100 - 140°C) body panels. Surface defects like waviness, fibre patterns and orange peel do not occur with this products. To achieve the highest surface quality, we recommend that tool surfaces are mirror polished. To ease demoulding we highly recommend chrome-plating of tool surfaces. Menzolit® SMC 0400 allows. The product shows very good adhesion to paint or In Mould Coating (IMC). Because of its zero shrink properties warpage is eliminated and parts reproducing the dimensions of the cold mould can be produced.

General Information			
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight		
Features	Flame Retardant Good Adhesion Good Surface Finish Halogen Free High Heat Resistance Low Shrinkage Low Smoke Emission Low Warpage		
Uses	Automotive Applications Automotive Exterior Parts		
Appearance	Natural Color		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)75<		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.90	g/cm³	ISO 1183
Molding Shrinkage			
-- [1]	0.0	%	DIN 53464
--	-0.050	%	ISO 2577
Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	11000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	90.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	1.5	%	ISO 527-2
Flexural Modulus (Compression Molded)	10000	MPa	ISO 178

Flexural Stress (Compression Molded)	180	MPa	ISO 178
Compressive Stress	100	MPa	ISO 14126
Poisson's Ratio	0.30		Internal Method
Matrix Crazing Strain	0.40	%	Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Compression Molded)	80	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	165	°C	ISO 14126
Glass Transition Temperature	200	°C	DSC
CLTE - Flow	1.0E-5	cm/cm/°C	ISO 11359-2
Flammability	**Nominal Value**		**Test Method**
Flame Rating (3.00 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Mold Temperature	140 to 160	°C	
Injection Pressure	8.00 to 10.0	MPa	
NOTE			
1.	Post Molding Shrinkage		

Recommended distributors for this material

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