Menzolit® SMC 0410

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 0410 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 nor heavy metals. Menzolit® SMC 0410 is a Premium Class-A SMC for on-line painted exterior body applications on cars developed with CCC technology. These compounds mould to parts with excellent surface quality for on-line painted body panels at high bake temperatures (190- 200 °C). The parts have to be primed with a conductive primer before e-coating. Moulded parts comply with all regulations of the automotive industry including low C-emissions. Surface defects like waviness, fibre patterns and orange peel are not existent with this product. To achieve the highest surface quality, we recommend that tool surfaces are mirror polished. The parts show very good adhesion to paint or In Mould Coating (IMC).

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)	12000	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)	11000	МРа	ISO 178

Flexural Stress (Compression Molded)	190	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)	86	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa,			
Unannealed)	> 200	°C	ISO 75-2/A
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Continuous Use Temperature	165	°C	Internal Method
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)	НВ		UL 94
Injection	Nominal Value	Unit	
Mold Temperature	145 to 155	°C	
Injection Pressure	8.00 to 10.0	MPa	
NOTE			
1.	Post Molding Shrinkage		

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Recommended distributors for this material

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