

# Menzolit® SMC 0421

Thermoset Polyester

Menzolit Ltd (UK)

## Message:

Menzolit® SMC 0421 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 highly recommended to mould in chrome plated moulds. The product contains no halogens nor any heavy metals. Menzolit® SMC 0421 is a low density premium Class-A SMC for on-line painted exterior body applications on cars. These compounds mould to light weight parts with excellent surface quality for on-line painted body panels at high paint bake temperatures (190- 200 °C). 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.

General Information			
Filler / Reinforcement	Glass\Mineral,38% Filler by Weight		
Features	Good Surface Finish		
	Halogen Free		
	Low Smoke Emission		
	Paintable		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Appearance	Natural Color		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			
--	-0.050	%	ISO 2577
-- <sup>1</sup>	0.0	%	DIN 53464
Water Absorption (23°C, 24 hr)	< 0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-4
Tensile Stress (Break)	75.0	MPa	ISO 527-4
Tensile Strain (Break)	1.3	%	ISO 527-4
Flexural Modulus	8000	MPa	ISO 178
Flexural Stress	150	MPa	ISO 14125
Compressive Stress	80.0	MPa	ISO 14126
Poisson's Ratio	0.30		
Matrix Crazing Strain	0.40	%	
Fiber Content	38	%	ISO 1172
Material Designation	>UP-(MD+GF+GB)70<		EN 14598-1
Impact	Nominal Value	Unit	Test Method


Charpy Unnotched Impact Strength	70	kJ/m <sup>2</sup>	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	
Glass Transition Temperature	200	°C	ISO 11357-2
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	145 to 155	°C	
Injection Pressure	3.00 to 8.00	MPa	
NOTE			
1.	Post Molding Shrinkage		

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Recommended distributors for this material

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