

Menzolit® SMC 0430

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 0430 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 0430 is a low emission Class-A SMC for on-line painted exterior body applications on passenger cars. These compounds mould to parts with excellent surface quality for on-line painted body panels at high paint bake temperatures (190- 200 °C). The parts have to be primed with a conductive primer before e-coating. In addition to the excellent surface quality that these parts provide they also are designed with a special matrix that allows drastically reduction of emissions, smell and fogging. 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 excellent temperature resistance of Menzolit® SMC 0430 allows online painting at high bake temperatures (190- 200 °C). The parts show very good adhesion to paint or In Mould Coating (IMC).

General Information			
Filler / Reinforcement	Glass\Mineral,28% Filler by Weight		
Features	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	1.82	g/cm ³	ISO 1183
Molding Shrinkage			
-- ¹	0.0	%	DIN 53464
--	-0.050	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	10000	MPa	ISO 14125
Flexural Stress	165	MPa	ISO 14125
Poisson's Ratio	0.30		
Fiber Content	28	%	ISO 1172
Material Designation	>UP-(GF+KD)70<		EN 14598-1
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	66	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 200	°C	ISO 75-2/A

Flammability	Nominal Value		Test Method
Flame Rating (4.00 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Mold Temperature	145 to 155	°C	
Injection Pressure	6.00 to 10.0	MPa	
NOTE			
1.	Post Molding Shrinkage		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

