# Menzolit® SMC 0390

## Thermoset Polyester

Menzolit Ltd (UK)

#### Message:

Menzolit® SMC 0390 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.

Menzolit® SMC 0390 is a standard low profile SMC. Because of its low shrinkage, the material shows good surface quality as well as very low warpage. The product is suitable for applications if a better surface quality is necessary that can not be achieved with low shrink material. Because of the low shrinkage, tool design is more difficult and the user should take care for proper part demoulding. Typical applications are furniture, telephone boothes, business machines and housings or covers that call for improved surface quality and dimensional stability. Because of this painting may be desired. Paint adhesion of appropriate paint systems is very good. Chromeplating of punch and cavity surfaces is recommended.

General Information					
UL YellowCard	E120779-100101996				
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight				
Features	Flame Retardant				
	Good Adhesion				
	Good Dimensional Stability				
	Good Surface Finish				
	Halogen Free				
	High Heat Resistance				
	Low Shrinkage				
	Low Smoke Emission				
	Low Warpage				
Uses	Business Equipment				
	Furniture				
	Housings				
Appearance	Colors Available				
Forms	SMC - Sheet Molding Compound				
Processing Method	Compression Molding				
Part Marking Code (ISO 11469)	>UP-(MD+GF)72<				
Physical	Nominal Value	Unit	Test Method		
Density	1.90	g/cm³	ISO 1183		
Molding Shrinkage					
1	0.0	%	DIN 53464		
	0.020	%	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)	86.0	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)	182	MPa	ISO 178
Compressive Stress	90.0	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)	82	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	1.0E-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	135 to 150	°C	
Word Temperature	135 (0 150	10	
Injection Pressure	8.00 to 10.0	MPa	

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.

Post Molding Shrinkage

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

1.

Phone: +86 13424755533 Email: sales@su-jiao.com

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

