# Menzolit® SMC 1800

## Thermoset Polyester

Menzolit Ltd (UK)

#### Message:

Menzolit® SMC 1800 is a sheet moulding compound based on an unic resin formulation. 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 does not contain halogens nor any heavy metals.

Menzolit® SMC 1800 is for structural applications requiring extreme high mechanical properties and low weight. These compounds mould to parts focusing on mechanical strength for replacement of metals in order to reduce the weight by keeping other performance characteristics like stiffness, low thermal expansion and low shrinkage. Its resilient matrix properties make it highly suitable for applications challenging in fatigue and dynamic loads.

General Information				
Filler / Reinforcement	Glass\Mineral,50% Filler by Weight			
Features	Halogen Free			
	High Strength			
	Low Shrinkage			
	Low Smoke Emission			
Processing Method	Compression Molding			
Physical	Nominal Value	Unit	Test Method	
Molding Shrinkage				
	0.0	%	DIN 53464	
	0.11	%	ISO 2577	
Water Absorption (23°C, 24 hr)	< 0.50	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	12000	MPa	ISO 527-2	
Tensile Stress (Break)	160	MPa	ISO 527-2	
Flexural Modulus	15000	MPa	ISO 178	
Flexural Stress	380	MPa	ISO 178	
Poisson's Ratio	0.30			
Fiber Content	50	%	ISO 1172	
Material Designation	>UP-(GF+KD)60<		EN 14598-1	
Impact	Nominal Value	Unit	Test Method	
Charpy Unnotched Impact Strength	170	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	140	°C		
CLTE - Flow	1.2E-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 12.0	MPa	

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#### 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

