Menzolit® SMC 0180

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit[®] SMC 0180 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 0180 is a general purpose SMC for applications in the field of electrical industry. Typical applications are housings, covers, wire distribution boxes and metering cabinets. The material meets the demands of DIN 16913 and is classified as type 833 (833.5) regarding mechanical properties. The flammability meets the demands of standard UL 94 category HB. The glass content is on a level that combines good mouldability with good mechanical properties regarding strength and stiffness.

General Information				
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight			
Features	Flame Retardant			
	General Purpose			
	Good Moldability			
	Good Stiffness			
	Good Strength			
	Halogen Free			
	High Heat Resistance			
	Low Smoke Emission			
Uses	Electrical/Electronic Applications			
	General Purpose			
	Housings			
Agency Ratings	DIN 16913 type 833.5			
Appearance	Colors Available			
Forms	SMC - Sheet Molding Compound			
Processing Method	Compression Molding			
Part Marking Code (ISO 11469)	>UP-(MD+GF)66<			
Physical	Nominal Value	Unit	Test Method	
Density	1.80	g/cm³	ISO 1183	
Molding Shrinkage				
¹	0.0	%	DIN 53464	
	0.050 to 0.15	%	ISO 2577	
Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus (Compression Molded)	11000	MPa	ISO 527-2	
Tensile Stress (Yield, Compression Molded)	72.0	MPa	ISO 527-2	
Flexural Modulus (Compression Molded)	9000	МРа	ISO 178	

Flexural Stress (Compression Molded)	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Compression Molded)	80	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	1.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.00 mm)	НВ		UL 94
Glow Wire Ignition Temperature	850	°C	IEC 60695-2-13
Oxygen Index	26	%	ISO 4589-2
Additional Information	Nominal Value		Test Method
Glow Bar	BH2 <= 30		IEC 60707-3
Injection	Nominal Value	Unit	
Mold Temperature	135 to 150	°C	
Injection Pressure	8.00 to 10.0	MPa	
NOTE			
1.	Post Molding Shrinkage		

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