Menzolit® SMC 1650

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 1650 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 nor any heavy metals.
Menzolit® SMC 1650 is a specially designed anti-microbial polyester moulding compound which incorporates a "germ killer" . It has been tested and found to be compliant for resistance to fungal defacement in accordance with the Standard test method BS EN ISO 846:1997. "Plastics - Evaluation of the Action of Microorganisms", and for resistance to bacterial defacement in accordance with the Standard test method "JIS Z 2801:2000. "Antimicrobial products - Test for antimicrobial activity and efficacy". Specific applications are parts within health care or sanitary equipment or furnitures. The glass content is on a level that combines good mouldability with good strength and stiffness properties. The compound is available in a varity of sanitary colours, for availability please contact your local menzolit team.

General Information			
Filler / Reinforcement	Glass\Mineral,20% Filler by Weight		
Features	Good Moldability Good Stiffness Good Strength Low Smoke Emission		
Uses	Furniture		
Agency Ratings	ISO 846 JIS Z2801		
Processing Method	Compression Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.70	g/cm³	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**
Tensile Modulus	11000	MPa	ISO 527-4
Tensile Stress (Yield)	56.0	MPa	ISO 527-4
Flexural Modulus	8000	MPa	ISO 14125
Flexural Stress	136	MPa	ISO 14125
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	61	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	

Glass Transition Temperature	170	°C	ISO 11357-2
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 (3.00 mm)	HB		UL 94
Glow Wire Ignition Temperature	750	°C	IEC 60695-2-13
Oxygen Index	30	%	ISO 4589-2
Additional Information	**Nominal Value**		**Test Method**
Fiber Content	20.0		ISO 1172
Glow Bar	BH 2 <= 10		IEC 60707-3
Material Designation	>UP-(MD+GF)57<		EN 14598-1
Injection	**Nominal Value**	**Unit**	
Mold Temperature	135 to 150	°C	
Injection Pressure	8.00 to 10.0	MPa	
NOTE			
1.	Post Molding Shrinkage		

Recommended distributors for this material

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