

Menzolit® SMC 0150

Thermoset Polyester

Menzolit Ltd (UK)

PROSPECTOR®

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Technical Data

Product Description

Menzolit® SMC 0150 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 0150 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 830 (830.5) 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

Material Status	• Commercial: Active		
Literature ¹	• Processing - Compression (English) • Technical Datasheet (English)		
Search for UL Yellow Card	• Menzolit Ltd (UK) • Menzolit®		
Availability	• Europe		
Filler / Reinforcement	• Glass\Mineral, 25% 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	• General Purpose	• Housings
Agency Ratings	• DIN 16913 type 830.5		
Appearance	• Colors Available		
Forms	• SMC - Sheet Molding Compound		
Processing Method	• Compression Molding		
Part Marking Code (ISO 11469)	• >UP-(MD+GF)70<		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.80 g/cm ³	1.80 g/cm ³	ISO 1183
Molding Shrinkage			
--	0.070 %	0.070 %	ISO 2577
-- ³	0.0 %	0.0 %	DIN 53464
Water Absorption (Saturation, 73°F (23°C))	< 0.50 %	< 0.50 %	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (Compression Molded)	1.74E+6 psi	12000 MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	8990 psi	62.0 MPa	ISO 527-2
Flexural Modulus (Compression Molded)	1.45E+6 psi	10000 MPa	ISO 178
Flexural Stress (Compression Molded)	21800 psi	150 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength Compression Molded	32 ft·lb/in ²	68 kJ/m ²	ISO 179
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	> 392 °F	> 200 °C	ISO 75-2/A
Continuous Use Temperature	329 °F	165 °C	Internal Method
Glass Transition Temperature	338 °F	170 °C	DSC
CLTE - Flow	6.7E-6 in/in/°F	1.2E-5 cm/cm/°C	ISO 11359-2
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	1.0E+12 ohms	1.0E+12 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093
Comparative Tracking Index	600 V	600 V	IEC 60112



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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.12 in (3.0 mm))	HB	HB	UL 94
Glow Wire Ignition Temperature	1380 °F	750 °C	IEC 60695-2-13
Oxygen Index	22 %	22 %	ISO 4589-2

Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Glow Bar	Level BH 2 <= 95	Level BH 2 <= 95	IEC 60707-3

Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	275 to 302 °F	135 to 150 °C
Injection Pressure	1160 to 1450 psi	8.00 to 10.0 MPa

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Post Molding Shrinkage



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Where to Buy

Supplier

Menzolit Ltd (UK)

Lancashire, United Kingdom

Telephone: +44-1706-814714

Web: <http://www.menzolit-uk.co.uk/>

Distributor

Please contact the supplier to find a distributor for Menzolit® SMC 0150

