

Menzolit® SMC 0800

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 0800 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 0800 is a special SMC for applications within household and kitchenware. The glass level has been selected to combine good mouldability with good strength and stiffness properties. The product shows good resistance to food chemicals, cleaning detergents, water and mechanical abrasion. Typical applications are trays and components for dish-washing and food processing machinery.

| General Information | | | |
|--|------------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass\Mineral,25% Filler by Weight | | |
| Features | Flame Retardant | | |
| | Good Abrasion Resistance | | |
| | Good Chemical Resistance | | |
| | Good Moldability | | |
| | Good Stiffness | | |
| | Good Strength | | |
| | Halogen Free | | |
| | High Heat Resistance | | |
| | Low Smoke Emission | | |
| Uses | Kitchenware | | |
| | Non-specific Food Applications | | |
| Appearance | Colors Available | | |
| Forms | SMC - Sheet Molding Compound | | |
| Processing Method | Compression Molding | | |
| Part Marking Code (ISO 11469) | >UP-(MD+GF+GB)67< | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.80 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | | | |
| -- ¹ | 0.0 | % | DIN 53464 |
| -- | 0.050 | % | ISO 2577 |
| Water Absorption (Saturation, 23°C) | < 0.30 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (Compression Molded) | 11000 | MPa | ISO 527-2 |
| Tensile Stress (Yield, Compression Molded) | 56.0 | MPa | ISO 527-2 |
| Flexural Modulus (Compression Molded) | 9000 | MPa | ISO 178 |
| Flexural Stress (Compression Molded) | 144 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |

| | | | |
|--|------------------------|-------------------|-----------------|
| Charpy Notched Impact Strength (Compression Molded) | 65 | kJ/m ² | 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 | Internal Method |
| Glass Transition Temperature | 125 | °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 (3.00 mm) | HB | | UL 94 |
| Glow Wire Ignition Temperature | 850 | °C | IEC 60695-2-13 |
| Oxygen Index | 27 | % | ISO 4589-2 |
| Additional Information | Nominal Value | | Test Method |
| Glow Bar | Level BH 2 <= 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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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



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