

# Menzolit® SMC 0210

Thermoset Polyester

Menzolit Ltd (UK)

## Message:

Menzolit® SMC 0210 is a general purpose SMC for a wide range of applications. Typically, it is used as housings, covers and functional components in mechanical engineering. The flammability meets the demands of standard UL 94 category HB, on request categ

| General Information                                 |                                      |                   |             |
|-----------------------------------------------------|--------------------------------------|-------------------|-------------|
| Filler / Reinforcement                              | Glass \mineral, 30% filler by weight |                   |             |
| Features                                            | Low smoke                            |                   |             |
|                                                     | Rigid, good                          |                   |             |
|                                                     | Good formability                     |                   |             |
|                                                     | Good strength                        |                   |             |
|                                                     | Heat resistance, high                |                   |             |
|                                                     | General                              |                   |             |
|                                                     | Halogen-free                         |                   |             |
| Uses                                                | Engineering application              |                   |             |
|                                                     | General                              |                   |             |
|                                                     | Shell                                |                   |             |
| Appearance                                          | Available colors                     |                   |             |
| Forms                                               | Particle                             |                   |             |
| Processing Method                                   | Compression molding                  |                   |             |
| Part Marking Code (ISO 11469)                       | >UP-(MD+GF)??                        |                   |             |
| Physical                                            | Nominal Value                        | Unit              | Test Method |
| Density                                             | 1.80                                 | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                                   | 0.15                                 | %                 | ISO 294-4   |
| Water Absorption (Saturation, 23°C)                 | 0.50                                 | %                 | ISO 62      |
| Mechanical                                          | Nominal Value                        | Unit              | Test Method |
| Tensile Modulus (Compression Molded)                | 12000                                | MPa               | ISO 527-2   |
| Tensile Stress (Yield, Compression Molded)          | 74.0                                 | MPa               | ISO 527-2   |
| Flexural Modulus (Compression Molded)               | 10000                                | MPa               | ISO 178     |
| Flexural Stress (Compression Molded)                | 178                                  | MPa               | ISO 178     |
| Impact                                              | Nominal Value                        | Unit              | Test Method |
| Charpy Notched Impact Strength (Compression Molded) | 80                                   | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                             | Nominal Value                        | Unit              | Test Method |
| Glass Transition Temperature                        | 130                                  | °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 | 750           | °C      | IEC 60695-2-13 |
| Oxygen Index                   | 22            | %       | ISO 4589-2     |

#### Additional Information

Shrinkage, ISO 2577: 0.15%Post Moulding Shrinkage, DIN 53464: 0%Heat Distortion Temperature, EN ISO 75-2: >200°CContinuous Service Temperature, Menzolit Method: 140°C Glow Bar, IEC 60707-3: BH2 ≤ 95

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Mold Temperature   | 135 - 150     | °C   |
| Injection Pressure | 8.00 - 10.0   | MPa  |

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