# Menzolit® BMC 2300

Thermoset Polyester

Menzolit Ltd (UK)

## Message:

Menzolit® BMC 2300 is a bulk 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 injection moulded in heated steel moulds. It is recommended to work with chrome plated tools. The product contains no halogens.
Menzolit® BMC 2300 is a special BMC with exceptional high fire retardancy. The glass content is set to a level that provides sufficient mouldability with high strength and stiffness properties. Fire retardancy is exceptionally high and the material is not burnable. The high fire retardancy makes it especially suited for switch gear components, for high voltage and high current applications.

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass\Mineral,20% Filler by Weight | | |
| Features | Flame Retardant<br>Good Moldability<br>Halogen Free<br>High Heat Resistance<br>High Stiffness<br>High Strength<br>Low Smoke Emission | | |
| Uses | Electrical Parts<br>Electrical/Electronic Applications | | |
| Appearance | Colors Available | | |
| Processing Method | Injection Molding | | |
| Part Marking Code (ISO 11469) | >UP-(MD+GF)64< | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.90 | g/cm³ | ISO 1183 |
| Molding Shrinkage | | | |
| -- [1] | 0.0 | % | DIN 53464 |
| -- | 0.080 | % | ISO 2577 |
| Water Absorption (Saturation, 23°C) | < 0.50 | % | ISO 62 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus (Compression Molded) | 13000 | MPa | ISO 527-2 |
| Tensile Stress (Yield, Compression Molded) | 31.0 | MPa | ISO 527-2 |
| Flexural Modulus (Compression Molded) | 10000 | MPa | ISO 178 |
| Flexural Stress (Compression Molded) | 96.0 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (Compression Molded) | 23 | kJ/m² | ISO 179 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Heat Deflection Temperature (1.8 MPa, Unannealed) | > 150 | °C | ISO 75-2/A |
| Continuous Use Temperature | 155 | °C | Internal Method |
| Glass Transition Temperature | 134 | °C | DSC |
| CLTE - Flow | 1.0E-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 |
| Arc Resistance | > 180 | sec | ASTM D495 |
| Comparative Tracking Index | 600 | V | IEC 1006 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Glow Wire Ignition Temperature | 960 | °C | IEC 60695-2-13 |
| Oxygen Index | 43 | % | ISO 4589-2 |
| **Additional Information** | **Nominal Value** | | **Test Method** |
| Glow Bar | BH2 <= 10 | | IEC 60707-3 |
| **Injection** | **Nominal Value** | **Unit** | |
| Mold Temperature | 135 to 150 | °C | |
| Injection Pressure | 2.00 to 8.00 | MPa | |
| **NOTE** | | | |
| 1. | Post Molding Shrinkage | | |



## Recommended distributors for this material

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