

Sumitomo Epoxy TEM 9053C

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

TEM 9053C is a short fiberglass reinforced, toughened epoxy molding compound, with excellent dimensional stability, high strength properties and good electrical insulation properties.

| General Information | |
|------------------------|----------------------------|
| Filler / Reinforcement | Glass Fiber |
| Features | Electrically Insulating |
| | Good Dimensional Stability |
| | High Strength |
| Appearance | Black |
| Forms | Granules |
| Processing Method | Compression Molding |
| | Resin Transfer Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity | 1.92 | g/cm ³ | ASTM D792 |
| Apparent Density | 0.85 | g/cm ³ | ASTM D1895 |
| Molding Shrinkage - Flow | 0.25 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.050 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness | 70 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 100 | MPa | ASTM D638 |
| Flexural Modulus | 16600 | MPa | ASTM D790 |
| Flexural Strength (Break) | 160 | MPa | ASTM D790 |
| Compressive Strength | 235 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 27 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | 160 | °C | ASTM D648 |
| CLTE - Flow | 2.6E-5 | cm/cm/°C | ASTM E831 |
| Thermal Conductivity | 0.71 | W/m/K | ASTM C518 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength ¹ | | | ASTM D149 |
| -- ² | 16 | kV/mm | |
| -- ³ | 14 | kV/mm | |

| | | | |
|--|-------|-----|-----------|
| Dielectric Constant ⁴ (1 MHz) | 4.20 | | ASTM D150 |
| Dissipation Factor ⁵ (1 MHz) | 0.015 | | ASTM D150 |
| Arc Resistance | 180 | sec | ASTM D495 |

NOTE

- | | |
|----|-------------------------|
| 1. | 60 Hz, Wet |
| 2. | Method A (Short-Time) |
| 3. | Method B (Step-by-Step) |
| 4. | Wet |
| 5. | Wet |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT