

Glastic® 1403

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

Grade 1403 is one of the most useful general purpose electrical grade materials available on the market. Competitive against phenolic, melamine and urea materials for electrical applications. Easy molding in compression, transfer and injection processes. Stable shelf life.

| General Information | | | |
|--|------------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material | | |
| Features | Insulation | | |
| | Good electrical performance | | |
| | General | | |
| Uses | Electrical/Electronic Applications | | |
| | Electrical components | | |
| | Electrical housing | | |
| Appearance | White | | |
| | Black | | |
| | Red | | |
| | Available colors | | |
| Forms | BMC-Block Molding Compound | | |
| Processing Method | Compression molding | | |
| | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.94 | g/cm ³ | ASTM D792 |
| Water Absorption (24 hr) | 0.13 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (Compression Molded) | 17200 | MPa | ASTM D638 |
| Tensile Strength (Yield, Compression Molded) | 40.3 | MPa | ASTM D638 |
| Flexural Modulus (Compression Molded) | 13100 | MPa | ASTM D790 |
| Flexural Strength (Compression Molded) | 107 | MPa | ASTM D790 |
| Compressive Strength | 155 | MPa | ASTM D695 |
| Shear Strength | 45.0 | MPa | ASTM D732 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (Compression Molded) | 190 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |

| | | | |
|---------------------|---------------|-------|-------------|
| RTI Elec | 54.4 | °C | UL 746 |
| RTI | 54.4 | °C | UL 746 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 4.8E+14 | ohms | ASTM D257 |
| Dielectric Strength | 17 | kV/mm | ASTM D149 |
| Dielectric Constant | | | ASTM D150 |
| | 6.40 | | |
| 60 Hz | 5.80 | | ASTM D150 |
| | 4.40 | | |
| 1 MHz | 4.70 | | ASTM D150 |
| Dissipation Factor | | | ASTM D150 |
| | 0.058 | | |
| 60 Hz | 0.026 | | ASTM D150 |
| | 0.078 | | |
| 1 MHz | 0.12 | | ASTM D150 |
| Arc Resistance | 199 | sec | ASTM D495 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | V-0 | | UL 94 |

Additional Information

Permittivity, ASTM D150, 60 Hz, Condition A: 5.8Permittivity, ASTM D150, 60 Hz, Condition D: 6.4Permittivity, ASTM D150, 1 MHz, Condition A: 4.4Permittivity, ASTM D150, 1 MHz, Condition D: 4.7Insulation Resistance, ASTM D257, Condition A: 48.1 Ohm x 10e13Insulation Resistance, ASTM D257, Condition C: 1.0 Ohm x 10e13Track Resistance, ASTM D2303: 105 minutesDissipation Factor, ASTM D150, 60 Hz, Condition A: 0.026Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.058Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.078Dissipation Factor, ASTM D150, 1 MHz, Condition D: 0.119

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