

## Bulk Molding Compounds BMC 1401 Encapsulating Material, Electrical Grade

Category : Polymer , Thermoset , Polyester , TS

**Material Notes:**

BMC 1401 is an electrical grade of encapsulating material characterized by a balance of soft flow and cure rate to ensure complete and proper encapsulation without voiding. Generally too soft for compression molding but excellent in transfer or injection processes. Directly competitive against epoxy encapsulants on cost and cycle times. Very stable shelf life. UL® recognized. This material was formerly known as Glastic® 1401.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bulk-Molding-Compounds-BMC-1401-Encapsulating-Material-Electrical-Grade.php](http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-1401-Encapsulating-Material-Electrical-Grade.php)

| Physical Properties   | Metric                | English               | Comments       |
|-----------------------|-----------------------|-----------------------|----------------|
| Specific Gravity      | 1.73 - 1.79 g/cc      | 1.73 - 1.79 g/cc      |                |
| Water Absorption      | 0.20 - 0.30 %         | 0.20 - 0.30 %         | 24 hours, 23°C |
| Linear Mold Shrinkage | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in |                |

| Mechanical Properties      | Metric            | English              | Comments |
|----------------------------|-------------------|----------------------|----------|
| Hardness, Barcol           | 40 - 50           | 40 - 50              |          |
| Tensile Strength, Ultimate | 241 - 310 MPa     | 35000 - 45000 psi    |          |
| Flexural Strength          | 75.8 - 89.6 MPa   | 11000 - 13000 psi    |          |
| Flexural Modulus           | 11.7 - 13.1 GPa   | 1700 - 1900 ksi      |          |
| Compressive Strength       | 103 - 117 MPa     | 15000 - 17000 psi    |          |
| Izod Impact, Notched       | 0.534 - 1.07 J/cm | 1.00 - 2.00 ft-lb/in |          |

| Thermal Properties                          | Metric    | English   | Comments |
|---|-----------|-----------|----------|
| Deflection Temperature at 1.8 MPa (264 psi) | >= 260 °C | >= 500 °F |          |
| Flammability, UL94                          | V-0       | V-0       |          |

| Electrical Properties | Metric                    | English                   | Comments   |
|-----------------------|---------------------------|---------------------------|------------|
| Dielectric Strength   | 11.4 kV/mm                | 290 kV/in                 | Short Time |
| Dissipation Factor    | 0.015<br>@Frequency 60 Hz | 0.015<br>@Frequency 60 Hz |            |
| Arc Resistance        | 190 sec                   | 190 sec                   |            |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Mold Temperature      | 138 - 166 °C | 280 - 330 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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