# Bulk Molding Compounds BMC 610 Mineral Filled, Glass Reinforced Polyester Compound

**Category :** Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass and Mineral Filled BMC

**Material Notes:**

BMC 610 molding compound is a mineral filled, glass fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is set a part form other medium impact electrical grade materials by its very high arc resistance and outstanding flame resistance in thin sections.Typical applications include transformer bobbins, terminal boards, arc chutes and contactors.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-610-Mineral-Filled-Glass-Reinforced-Polyester-Compound.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Specific Gravity | 1.93 g/cc | 1.93 g/cc | |
| Water Absorption | 0.10 % | 0.10 % | 24 hours, 23°C |
| Linear Mold Shrinkage | 0.0025 - 0.0045 cm/cm | 0.0025 - 0.0045 in/in | |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Hardness, Barcol | 30 - 40 | 30 - 40 | |
| Tensile Strength, Ultimate | 41.4 - 55.2 MPa | 6000 - 8000 psi | |
| Flexural Strength | 96.5 - 124 MPa | 14000 - 18000 psi | |
| Compressive Strength | 165 - 193 MPa | 24000 - 28000 psi | |
| Izod Impact, Notched | 1.07 - 2.14 J/cm | 2.00 - 4.00 ft-lb/in | |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Deflection Temperature at 1.8 MPa (264 psi) | >= 260 °C | >= 500 °F | |
| Flammability, UL94 | V-0<br>@Thickness 6.35 mm | V-0<br>@Thickness 0.250 in | |
| | V-0<br>@Thickness 3.17 mm | V-0<br>@Thickness 0.125 in | |
| | V-0<br>@Thickness 1.59 mm | V-0<br>@Thickness 0.0625 in | |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| | 5.5 | 5.5 | |

| Electrical Properties | Metric | English | Comments |
|---|---|---|---|
| Dielectric Constant | @Frequency 60 Hz | @Frequency 60 Hz | |
| Dielectric Strength | 14.2 kV/mm | 360 kV/in | Short Time |
| Dissipation Factor | 0.015<br>@Frequency 60 Hz | 0.015<br>@Frequency 60 Hz | |
| Arc Resistance | >= 210 sec | >= 210 sec | |
| Track Resistance | >= 5400 sec | >= 5400 sec | Inclined Plane, 2.5kV |
| Comparative Tracking Index | >= 600 V | >= 600 V | |

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

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