

## Mar-Bal MB2000-20 Thermoset Polyester Composite Molding Compound

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

### Material Notes:

An excellent flame and track resistant material with excellent electrical and mechanical properties. Good dielectric strength and low shrink for close dimensional control. Mar-Bal standard grades can be injection, compression and transfer molded. Information provided by Mar-Bal, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Mar-Bal-MB2000-20-Thermoset-Polyester-Composite-Molding-Compound.php](http://www.lookpolymers.com/polymer_Mar-Bal-MB2000-20-Thermoset-Polyester-Composite-Molding-Compound.php)

| Physical Properties   | Metric                    | English                   | Comments   |
|-----------------------|---------------------------|---------------------------|------------|
| Specific Gravity      | 1.75 - 1.80 g/cc          | 1.75 - 1.80 g/cc          | ASTM D792  |
| Bulk Factor           | 2.0                       | 2.0                       | ASTM D1895 |
| Filler Content        | 20 %                      | 20 %                      | Glass      |
| Water Absorption      | 0.12 %<br>@Time 86400 sec | 0.12 %<br>@Time 24.0 hour | ASTM D570  |
| Linear Mold Shrinkage | 0.00050 - 0.0020<br>cm/cm | 0.00050 - 0.0020 in/in    | ASTM D955  |

| Mechanical Properties | Metric           | English              | Comments   |
|-----------------------|------------------|----------------------|------------|
| Hardness, Barcol      | 35 - 45          | 35 - 45              | ASTM D2583 |
| Tensile Strength      | 34.5 - 55.2 MPa  | 5000 - 8000 psi      | ASTM D638  |
| Flexural Strength     | 131 - 152 MPa    | 19000 - 22000 psi    | ASTM D790  |
| Flexural Modulus      | 11.7 - 13.8 GPa  | 1700 - 2000 ksi      | ASTM D790  |
| Compressive Strength  | 138 - 165 MPa    | 20000 - 24000 psi    | ASTM D695  |
| Shear Strength        | 62.1 - 75.8 MPa  | 9000 - 11000 psi     | ASTM D732  |
| Izod Impact, Notched  | 4.27 - 5.34 J/cm | 8.00 - 10.0 ft-lb/in | ASTM D256  |

| Thermal Properties                          | Metric     | English    | Comments  |
|---|------------|------------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | >= 260 Å°C | >= 500 Å°F | ASTM D648 |
| Flammability, UL94                          | V-0        | V-0        |           |

| Electrical Properties | Metric     | English   | Comments  |
|-----------------------|------------|-----------|-----------|
| Dielectric Strength   | 13.8 kV/mm | 350 kV/in | ASTM D149 |

| Electrical Properties | Metric    | English   | Comments                            |
|-----------------------|-----------|-----------|-------------------------------------|
| Arc Resistance        | ≥ 180 sec | ≥ 180 sec | ASTM D495                           |
| Track Resistance      | 6000 sec  | 6000 sec  | Inclined-Plane Tracking; ASTM D2303 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Listed File E80533     | Yes   |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China