

## IDI Composites 44-10 Thermoset Polyester, Molding

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

### Material Notes:

Multi-purpose medium strength material with excellent surface appearance, corrosion resistance, and V-O flame resistance. Data provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_IDI-Composites-44-10-Thermoset-Polyester-Molding.php](http://www.lookpolymers.com/polymer_IDI-Composites-44-10-Thermoset-Polyester-Molding.php)

| Physical Properties   | Metric                | English                   | Comments               |
|-----------------------|-----------------------|---------------------------|------------------------|
| Density               | 1.96 g/cc             | 0.0708 lb/in <sup>3</sup> |                        |
| Water Absorption      | 0.15 %                | 0.15 %                    | in 24 hours; ASTM D570 |
| Linear Mold Shrinkage | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in     | ASTM D955              |

| Mechanical Properties      | Metric    | English       | Comments   |
|----------------------------|-----------|---------------|------------|
| Hardness, Barcol           | 40 - 50   | 40 - 50       | ASTM D2583 |
| Tensile Strength, Ultimate | 41.0 MPa  | 5950 psi      | ASTM D638  |
| Flexural Strength          | 110 MPa   | 16000 psi     | ASTM D790  |
| Compressive Strength       | 145 MPa   | 21000 psi     | ASTM D695  |
| Izod Impact, Notched       | 2.90 J/cm | 5.43 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<br>@Thickness 3.20 mm | V-0<br>@Thickness 0.126 in | 5V; UL94  |

| Electrical Properties | Metric     | English    | Comments  |
|-----------------------|------------|------------|-----------|
| Arc Resistance        | >= 180 sec | >= 180 sec | ASTM D495 |

## Contact Songhan Plastic Technology Co.,Ltd.

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