

## Master Bond EP112FLAN-1 Two Component Flexibilized Heat Curing Epoxy

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

Master Bond EP112FLAN-1 is a toughened two component, high performance epoxy resin system featuring good temperature resistance, high thermal conductivity, fine electrical insulation values and sound dimensional stability. The mix ratio is 100:80 by weight. After mixing EP112FLAN-1 has a very long open time of a few days but requires oven curing. A typical cure schedule is 2-3 hours at 250°F followed by 5-8 hours at 300°F with a 2 hour post cure at 350°F, although, a number of variations are possible. Also EP112FLAN-1 is ideal for potting and encapsulation because of its lower viscosity and its advantageous flow properties. The epoxy bonds well to metals, composites, glass, ceramics and many plastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-EP112FLAN-1-Two-Component-Flexibilized-Heat-Curing-Epoxy.php](http://www.lookpolymers.com/polymer_Master-Bond-EP112FLAN-1-Two-Component-Flexibilized-Heat-Curing-Epoxy.php)

| Physical Properties | Metric           | English          | Comments                    |
|---------------------|------------------|------------------|-----------------------------|
| Viscosity           | 30000 - 65000 cP | 30000 - 65000 cP | mixed compound; thixotropic |

| Mechanical Properties | Metric                              | English                              | Comments |
|-----------------------|-------------------------------------|--------------------------------------|----------|
| Hardness, Shore D     | >= 85                               | >= 85                                |          |
| Tensile Strength      | >= 75.8 MPa<br>@Temperature 23.9 °C | >= 11000 psi<br>@Temperature 75.0 °F |          |
| Compressive Strength  | >= 138 MPa                          | >= 20000 psi                         |          |

| Thermal Properties               | Metric              | English                                   | Comments |
|----------------------------------|---------------------|---|----------|
| CTE, linear                      | 25.0 - 30.0 µm/m-°C | 13.9 - 16.7 µin/in-°F                     |          |
| Thermal Conductivity             | 3.17 - 3.60 W/m-K   | 22.0 - 25.0 BTU-in/hr-ft <sup>2</sup> -°F |          |
| Maximum Service Temperature, Air | 260 °C              | 500 °F                                    |          |
| Minimum Service Temperature, Air | -51.1 °C            | -60.0 °F                                  |          |

| Electrical Properties | Metric                                 | English                                | Comments |
|-----------------------|--|--|----------|
| Volume Resistivity    | >= 3e+11 ohm-cm<br>@Temperature 150 °C | >= 3e+11 ohm-cm<br>@Temperature 302 °F |          |
|                       | >= 3e+12 ohm-cm<br>@Temperature 100 °C | >= 3e+12 ohm-cm<br>@Temperature 212 °F |          |
|                       | >= 3e+14 ohm-cm                        | >= 3e+14 ohm-cm                        |          |

| Electrical Properties | @Temperature 25.0 °C<br>Metric             | @Temperature 77.0 °F<br>English            | Comments |
|-----------------------|--|--|----------|
| Dielectric Constant   | 4.3  | 4.3  |          |
|                       | @Frequency 60.0 Hz,<br>Temperature 23.0 °C | @Frequency 60.0 Hz,<br>Temperature 73.4 °F |          |
| Dissipation Factor    | 0.31                                       | 0.31                                       |          |
|                       | @Frequency 60.0 Hz,<br>Temperature 23.0 °C | @Frequency 60.0 Hz,<br>Temperature 73.4 °F |          |

| Processing Properties | Metric     | English    | Comments            |
|-----------------------|------------|------------|---------------------|
| Shelf Life            | 6.00 Month | 6.00 Month | unopened containers |

## Contact Songhan Plastic Technology Co.,Ltd.

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