

## Master Bond LED403Med USP Class VI, One Component, LED Curable System

Category : Polymer , Thermoset , Epoxy , Epoxy Encapsulant, Unreinforced

### Material Notes:

Master Bond LED403Med is a one part LED system that cures fully upon exposure to a 405 nm wavelength light that is generated by an LED source and. In fact, this material will fully cure tack-free without any oxygen inhibition. This technology allows LED403Med to be utilized not only as an adhesive, but as a sealant, coating and encapsulation system. LED403Med fully passes the plastics test for USP Class VI biocompatibility and ISO 10993-5 cytotoxicity requirements.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Master-Bond-LED403Med-USP-Class-VI-One-Component-LED-Curable-System.php](http://www.lookpolymers.com/polymer_Master-Bond-LED403Med-USP-Class-VI-One-Component-LED-Curable-System.php)

| Physical Properties | Metric             | English            | Comments |
|---------------------|--------------------|--------------------|----------|
| Viscosity           | 100000 - 150000 cP | 100000 - 150000 cP |          |

| Mechanical Properties | Metric            | English         | Comments |
|-----------------------|-------------------|-----------------|----------|
| Hardness, Shore D     | 65 - 70           | 65 - 70         |          |
| Tensile Strength      | >= 24.1 MPa       | >= 3500 psi     |          |
| Tensile Modulus       | 0.276 - 0.552 GPa | 40.0 - 80.0 ksi |          |

| Thermal Properties               | Metric  | English   | Comments |
|----------------------------------|---|---|----------|
| CTE, linear                      | 60.0 - 65.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 33.3 - 36.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ |          |
| Maximum Service Temperature, Air | 121 $^\circ\text{C}$                                  | 250 $^\circ\text{F}$                                    |          |
| Minimum Service Temperature, Air | -51.1 $^\circ\text{C}$                                | -60.0 $^\circ\text{F}$                                  |          |
| Glass Transition Temp, Tg        | 70.0 - 75.0 $^\circ\text{C}$                          | 158 - 167 $^\circ\text{F}$                              |          |

| Optical Properties    | Metric  | English | Comments                |
|-----------------------|---------|---------|-------------------------|
| Transmission, Visible | >= 90 % | >= 90 % | thickness not specified |

| Electrical Properties | Metric             | English            | Comments |
|-----------------------|--------------------|--------------------|----------|
| Volume Resistivity    | >= 1.00e+14 ohm-cm | >= 1.00e+14 ohm-cm |          |
| Dielectric Constant   | 3.7                | 3.7                |          |
|                       | @Frequency 60.0 Hz | @Frequency 60.0 Hz |          |

| Processing Properties | Metric     | English    | Comments   |
|-----------------------|------------|------------|--|
| Shelf Life            | 6.00 Month | 6.00 Month | unopened containers with no exposure to light, with no exposure to |

| Processing Properties  | Metric | English | light<br>Comments |
|------------------------|--------|---------|-------------------|
| Descriptive Properties |        | Value   | Comments          |
| Color                  |        | Clear   |                   |

## Contact Songhan Plastic Technology Co.,Ltd.

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