

## Epoxyset Epoxibond EB-348 Low Expansion Epoxy Adhesive

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

### Material Notes:

EB-348 is a highly filled, extremely low expansion, epoxy adhesive. This low out-gassing adhesive exhibits excellent wettability without preheating metal bonding surfaces and has a good dimensional stability and excellent chemical resistance. Information provided by Epoxyset Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxyset-Epoxibond-EB-348-Low-Expansion-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Epoxyset-Epoxibond-EB-348-Low-Expansion-Epoxy-Adhesive.php)

| Physical Properties | Metric      | English                   | Comments |
|---------------------|-------------|---------------------------|----------|
| Density             | 1.76 g/cc   | 0.0636 lb/in <sup>3</sup> |          |
| Water Absorption    | 0.20 %      | 0.20 %                    |          |
| Viscosity           | >= 40000 cP | >= 40000 cP               |          |

| Mechanical Properties  | Metric   | English  | Comments           |
|------------------------|----------|----------|--------------------|
| Hardness, Shore D      | 93       | 93       | ASTM D2240         |
| Adhesive Bond Strength | 13.8 MPa | 2000 psi | Lap Shear Strength |

| Thermal Properties               | Metric                                         | English                                          | Comments |
|----------------------------------|------------------------------------------------|--------------------------------------------------|----------|
| CTE, linear                      | 23.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 12.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ |          |
| Maximum Service Temperature, Air | 230 $^\circ\text{C}$                           | 446 $^\circ\text{F}$                             |          |
| Minimum Service Temperature, Air | -55.0 $^\circ\text{C}$                         | -67.0 $^\circ\text{F}$                           |          |
| Glass Transition Temp, Tg        | 93.0 $^\circ\text{C}$                          | 199 $^\circ\text{F}$                             |          |

| Processing Properties | Metric                            | English                           | Comments |
|-----------------------|-----------------------------------|-----------------------------------|----------|
| Cure Time             | 30.0 min                          | 0.500 hour                        |          |
|                       | @Temperature 150 $^\circ\text{C}$ | @Temperature 302 $^\circ\text{F}$ |          |
|                       | 60.0 min                          | 1.00 hour                         |          |
|                       | @Temperature 100 $^\circ\text{C}$ | @Temperature 212 $^\circ\text{F}$ |          |
| Pot Life              | 120 min                           | 120 min                           |          |

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