

## Armstrong A-3/E Epoxy Adhesive

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

### Material Notes:

A Jet black epoxy paste especially formulated for bonding rigid materials. When used with Activator A or E, A-3 exhibits excellent bonding properties to phenolics, precious stones, ceramics, glass, etc. Information provided by Ellsworth Adhesives.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Armstrong-A-3E-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Armstrong-A-3E-Epoxy-Adhesive.php)

| Physical Properties | Metric    | English   | Comments |
|---------------------|-----------|-----------|----------|
| Viscosity           | 490000 cP | 490000 cP | Mixed    |

| Mechanical Properties      | Metric                            | English                           | Comments                        |
|----------------------------|-----------------------------------|-----------------------------------|---------------------------------|
| Hardness, Shore D          | 85                                | 85                                |                                 |
| Tensile Strength, Ultimate | 39.0 MPa                          | 5650 psi                          | after optimum cure              |
| Elongation at Break        | 2.1 %                             | 2.1 %                             |                                 |
| Adhesive Bond Strength     | 59.6 MPa                          | 8650 psi                          | Steel-Steel; after optimum cure |
|                            | 14.5 MPa<br>@Temperature -54.4 °C | 2100 psi<br>@Temperature -66.0 °F | Aluminum-Aluminum tensile shear |
|                            | 16.2 MPa<br>@Temperature 82.2 °C  | 2350 psi<br>@Temperature 180 °F   | Aluminum-Aluminum tensile shear |
|                            | 20.3 MPa<br>@Temperature 25.0 °C  | 2950 psi<br>@Temperature 77.0 °F  | Aluminum-Aluminum tensile shear |

| Thermal Properties        | Metric                               | English                                | Comments |
|---------------------------|--------------------------------------|----------------------------------------|----------|
| CTE, linear               | 48.0 µm/m-°C<br>@Temperature 20.0 °C | 26.7 µin/in-°F<br>@Temperature 68.0 °F |          |
| Glass Transition Temp, Tg | 98.0 °C                              | 208 °F                                 |          |

| Processing Properties  | Metric                                | English                               | Comments                      |
|------------------------|---------------------------------------|---------------------------------------|-------------------------------|
| Processing Temperature | 93.3 °C                               | 200 °F                                | Optimum cure is 1 hr. @ 200°F |
| Pot Life               | 120 - 180 min<br>@Temperature 25.0 °C | 120 - 180 min<br>@Temperature 77.0 °F | 100 g                         |

| Descriptive Properties | Value | Comments  |
|------------------------|-------|-----------|
| Color                  | Black |           |
| Mix Ratio              | 100/6 | By Weight |

## Contact Songhan Plastic Technology Co.,Ltd.

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