

## Armstrong A-661 Epoxy Adhesive

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

### Material Notes:

A truly unique, two-component, room temperature curing thixotropic epoxy adhesive system, which exhibits good bond strength at service temperatures up to 400°F. Ideal for applications where resistance to high service temperatures is required, but where a room temperature cure is desirable. Information provided by Ellsworth Adhesives.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Armstrong-A-661-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Armstrong-A-661-Epoxy-Adhesive.php)

| Mechanical Properties      | Metric                            | English                           | Comments                        |
|----------------------------|-----------------------------------|-----------------------------------|---------------------------------|
| Hardness, Shore D          | 82                                | 82                                |                                 |
| Tensile Strength, Ultimate | 43.8 MPa                          | 6350 psi                          | after optimum cure              |
| Elongation at Break        | 2.5 %                             | 2.5 %                             |                                 |
| Adhesive Bond Strength     | 34.8 MPa                          | 5050 psi                          | Steel-Steel; after optimum cure |
|                            | 17.2 MPa<br>@Temperature -54.4 °C | 2500 psi<br>@Temperature -66.0 °F | Aluminum-Aluminum tensile shear |
|                            | 22.8 MPa<br>@Temperature 82.2 °C  | 3300 psi<br>@Temperature 180 °F   | Aluminum-Aluminum tensile shear |
|                            | 26.9 MPa<br>@Temperature 25.0 °C  | 3900 psi<br>@Temperature 77.0 °F  | Aluminum-Aluminum tensile shear |

| Thermal Properties               | Metric  | English   | Comments |
|----------------------------------|---|---|----------|
| CTE, linear                      | 35.0 $\mu\text{m}/\text{m}\cdot\text{°C}$<br>@Temperature 20.0 °C | 19.4 $\mu\text{in}/\text{in}\cdot\text{°F}$<br>@Temperature 68.0 °F |          |
| Maximum Service Temperature, Air | 204 °C  | 400 °F  |          |
| Glass Transition Temp, Tg        | 115 °C  | 239 °F  |          |

| Processing Properties  | Metric                             | English                            | Comments                        |
|------------------------|------------------------------------|------------------------------------|---------------------------------|
| Processing Temperature | 22.2 °C                            | 72.0 °F                            |                                 |
|                        | 149 °C                             | 300 °F                             | Optimum cure is 10 min. @ 300°F |
| Pot Life               | <= 180 min<br>@Temperature 25.0 °C | <= 180 min<br>@Temperature 77.0 °F | 100 g                           |

| Descriptive Properties | Value     | Comments  |
|------------------------|-----------|-----------|
| Color                  | Off White |           |
| Mix Ratio              | 4/1       | By Weight |

## Contact Songhan Plastic Technology Co.,Ltd.

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