

Armstrong C-7/W Epoxy Adhesive, 1:1 Mix Ratio

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

Material Notes:

A clear, unfilled, medium viscosity adhesive recommended for use with any Armstrong Activator. Physical property data included covers C-7 used with Activators W and H-20. All other Activators may also be used to achieve specific characteristics in the completed bond- see appropriate Data Sheet for details. C-7 with Activator W offers maximum versatility in that differing degrees of flexibility can be achieved by varying the mixing ratios within the recommended limits. C-7 with Activator W meets the requirements of Navy Specs. XWS15351 and WS 09125C. C-7, when used with Activator H-20, offers a tough yet rigid bond. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-C-7W-Epoxy-Adhesive-11-Mix-Ratio.php

| Physical Properties | Metric | English | Comments |
|---------------------|----------|----------|----------|
| Viscosity | 22000 cP | 22000 cP | Mixed |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------------------------------|-----------------------------------|---------------------------------|
| Hardness, Shore D | 78 | 78 | |
| Tensile Strength, Ultimate | 41.0 MPa | 5940 psi | after optimum cure |
| Elongation at Break | 5.6 % | 5.6 % | |
| Adhesive Bond Strength | 36.5 MPa | 5300 psi | Steel-Steel; after optimum cure |
| | 9.31 MPa @Temperature 82.2 °C | 1350 psi @Temperature 180 °F | Aluminum-Aluminum tensile shear |
| | 19.3 MPa @Temperature -54.4 °C | 2800 psi @Temperature -66.0 °F | Aluminum-Aluminum tensile shear |
| | 21.0 MPa @Temperature 25.0 °C | 3050 psi @Temperature 77.0 °F | Aluminum-Aluminum tensile shear |

| Thermal Properties | Metric | English | Comments |
|---------------------------|---|---|----------|
| CTE, linear | 73.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C | 40.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F | |
| Glass Transition Temp, Tg | 55.0 °C | 131 °F | |

| Processing Properties | Metric | English | Comments |
|------------------------|---------|---------|---------------------------------|
| Processing Temperature | 22.2 °C | 72.0 °F | |
| | 93.3 °C | 200 °F | Optimum cure is 15 min. @ 200°F |

| Processing Properties | Metric | English | Comments |
|-----------------------|-------------------------------------|-------------------------------------|-----------------------------|
| | 143 °C | 300 °F | Fast cure is 5 min. @ 300°F |
| Pot Life | <= 90.0 min @Temperature 25.0 °C | <= 90.0 min @Temperature 77.0 °F | 100 g |

| Descriptive Properties | Value | Comments |
|------------------------|-------|-----------|
| Color | Amber | |
| Mix Ratio | 1/1 | By Weight |

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