

Armstrong C-7/W Epoxy Adhesive, 3:2 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-32-Mix-Ratio.php

Physical Properties	Metric	English	Comments
Viscosity	16000 cP	16000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength, Ultimate	42.1 MPa	6100 psi	after optimum cure
Elongation at Break	4.9 %	4.9 %	
Adhesive Bond Strength	31.0 MPa	4500 psi	Steel-Steel; after optimum cure
	11.0 MPa @Temperature 82.2 °C	1600 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	20.7 MPa @Temperature -54.4 °C	3000 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	24.8 MPa @Temperature 25.0 °C	3600 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	33.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	18.3 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	68.0 °C	154 °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	3/2	By Weight

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