

Armstrong C-7/H20 Epoxy Adhesive

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-7H20-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	24000 cP	24000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	
Tensile Strength, Ultimate	58.6 MPa	8500 psi	after optimum cure
Elongation at Break	3.7 %	3.7 %	
Adhesive Bond Strength	26.2 MPa	3800 psi	Steel-Steel; after optimum cure
	14.1 MPa @Temperature 25.0 °C	2050 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear
	14.5 MPa @Temperature 82.2 °C	2100 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	15.2 MPa @Temperature -54.4 °C	2200 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	22.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	98.0 °C	208 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	22.2 °C	72.0 °F	
	73.9 °C	165 °F	Optimum cure is 2 hr. @ 165°F

Processing Properties	Metric	English	Comments
	140 °C	300 °F	Fast cure is 5 min. @ 300°F
Pot Life	<= 45.0 min @Temperature 25.0 °C	<= 45.0 min @Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	Amber	
Mix Ratio	3/1	By Weight

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