

Armstrong C-4/W Epoxy Adhesive

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

Material Notes:

A low viscosity, clear amber, unfilled adhesive, recommended for use with activators D or W. C-4 with Activator W offers maximum versatility in that differing degrees of flexibility can be achieved by varying the mixing ratios within recommended limits. C-4 with Activator D is useful where an adhesive with a low mixed-viscosity is needed. It may also be used for fiberglass laminating or casting. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-C-4W-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	10400 cP	10400 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	
Tensile Strength, Ultimate	38.6 MPa	5600 psi	after optimum cure
Elongation at Break	12.5 %	12.5 %	
Adhesive Bond Strength	36.2 MPa	5250 psi	Steel-Steel; after optimum cure
	5.17 MPa @Temperature 82.2 °C	750 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	12.4 MPa @Temperature 25.0 °C	1800 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear
	16.9 MPa @Temperature -54.4 °C	2450 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	10.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	65.0 °C	149 °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	149 °C Metric	300 °F English	Fast cure is 5 min. @ 300°F Comments
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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