

## Armstrong C-1/E Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Encapsulant , Unreinforced

### Material Notes:

A versatile, low viscosity, unfilled resin used for electrical potting and laminating applications. It is an excellent insulator, and provides outstanding chemical resistance to most compounds. Information provided by Ellsworth Adhesives.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Armstrong-C-1E-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Armstrong-C-1E-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Viscosity	1000 cP	1000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	
Tensile Strength, Ultimate	59.0 MPa	8550 psi	after optimum cure
Elongation at Break	4.3 %	4.3 %	
Adhesive Bond Strength	44.8 MPa	6500 psi	Steel-Steel; after optimum cure
	11.0 MPa @Temperature 25.0 °C	1600 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear
	13.8 MPa @Temperature -54.4 °C	2000 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	16.2 MPa @Temperature 82.2 °C	2350 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	34.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	18.9 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	100 °C	212 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	93.3 °C	200 °F	Optimum cure is 1 hr. @ 200°F
Pot Life	120 - 180 min @Temperature 25.0 °C	120 - 180 min @Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	Amber	
Mix Ratio	100/12	By Weight

## Contact Songhan Plastic Technology Co.,Ltd.

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