

Armstrong C-1/A 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-1A-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	2200 cP	2200 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	
Tensile Strength, Ultimate	57.2 MPa	8300 psi	after optimum cure
Elongation at Break	3.5 %	3.5 %	
Adhesive Bond Strength	21.0 MPa	3050 psi	Steel-Steel; after optimum cure
	11.7 MPa @Temperature -54.4 °C	1700 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	14.8 MPa @Temperature 82.2 °C	2150 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	15.2 MPa @Temperature 25.0 °C	2200 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	33.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	18.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	89.0 °C	192 °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
Pot Life	<= 30.0 min @Temperature 25.0 °C	<= 30.0 min @Temperature 77.0 °F	100 g

Processing Properties Descriptive Properties	Metric	English Value	Comments Comments
Color		Amber	
Mix Ratio		100/8	By Weight

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