

Armstrong C-1/H2O 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-1H2O-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	2200 cP	2200 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength, Ultimate	53.1 MPa	7700 psi	after optimum cure
Elongation at Break	4.8 %	4.8 %	
Adhesive Bond Strength	43.4 MPa	6300 psi	Steel-Steel; after optimum cure
	7.58 MPa @Temperature 82.2 °C	1100 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	16.2 MPa @Temperature 25.0 °C	2350 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	36.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	20.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	79.0 °C	174 °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
	149 °C	300 °F	Fast cure is 30 min. @ 300°F
	<= 40.0 min	<= 40.0 min	

Pot Life	Metric	English	100 g
Processing Properties	@ Temperature 25.0 °C	@ Temperature 77.0 °F	Comments

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China