

Armstrong A-12 Epoxy Adhesive, at 1:1 Mix Ratio

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

Material Notes:

Our most popular general-purpose, high viscosity adhesive for industry. Combines low toxicity with excellent physical properties, and offers a non-critical mixing ratio of 1:1 by weight. This ratio can be altered to achieve improved bond properties at elevated or cryogenic temperatures. Adhesive and curing agent are easily mixed and are of different colors for visual assurance of thorough mixing. A-12 meets the requirements of Mil Spec. MIL-A-47074 (MI) Type 1, Class 2. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-A-12-Epoxy-Adhesive-at-1-1-Mix-Ratio.php

Physical Properties	Metric	English	Comments
Viscosity	80000 cP	80000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	
Tensile Strength, Ultimate	42.4 MPa	6150 psi	after optimum cure
Elongation at Break	3.3 %	3.3 %	
Adhesive Bond Strength	34.8 MPa	5050 psi	Steel-Steel; after optimum cure
	12.4 MPa @Temperature 82.2 °C	1800 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	22.4 MPa @Temperature -54.4 °C	3250 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	37.9 MPa @Temperature 25.0 °C	5500 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	60.0 °C	140 °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	Brown	
Mix Ratio	1/1	By Weight

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