

Armstrong A-2/W Epoxy Adhesive

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

Material Notes:

This off-white paste epoxy is a versatile adhesive systems. The choice of one of four recommended Activators (A, E, W or H-20) makes A-2 Adhesive an ideal choice for many applications. A-2 with Activators W or H-20 has a very low thermal expansion coefficient, especially important for bonding ceramics, porcelain, etc. A-2 with Activator A is qualified under Mil. Spec. MIL-A-47284 (MI). Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-A-2W-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	130000 cP	130000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength, Ultimate	42.7 MPa	6200 psi	after optimum cure
Elongation at Break	3.1 %	3.1 %	
Adhesive Bond Strength	39.0 MPa	5650 psi	Steel-Steel; after optimum cure
	8.27 MPa @Temperature 82.2 °C	1200 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	20.0 MPa @Temperature -54.4 °C	2900 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	37.6 MPa @Temperature 25.0 °C	5450 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	86.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	47.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ @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	
	93.3 °C	200 °F	Optimum cure is 30 min. @ 200°F

Processing Properties	149 °C Metric	300 °F English	Fast cure is 5 min. @ 300°F Comments
Pot Life	<= 60.0 min @Temperature 25.0 °C	<= 60.0 min @Temperature 77.0 °F	100 g

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

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