

Armstrong A-2/A 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-2A-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	210000 cP	210000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Tensile Strength, Ultimate	30.7 MPa	4450 psi	after optimum cure
Elongation at Break	2.0 %	2.0 %	
Adhesive Bond Strength	53.8 MPa	7800 psi	Steel-Steel; after optimum cure
	14.1 MPa @Temperature -54.4 °C	2050 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	14.5 MPa @Temperature 82.2 °C	2100 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	55.0 µm/m-°C @Temperature 20.0 °C	30.6 µin/in-°F @Temperature 68.0 °F	
Glass Transition Temp, Tg	114 °C	237 °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	93.3 °C Metric	200 °F English	Fast cure is 10 min. @ 200°F Comments
Pot Life	<= 30.0 min @Temperature 25.0 °C	<= 30.0 min @Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	White	
Mix Ratio	100/4	By Weight

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