

Armstrong A-3/A Epoxy Adhesive

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

Material Notes:

A Jet black epoxy paste especially formulated for bonding rigid materials. When used with Activator A or E, A-3 exhibits excellent bonding properties to phenolics, precious stones, ceramics, glass, etc. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-A-3A-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	500000 cP	500000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Tensile Strength, Ultimate	31.4 MPa	4550 psi	after optimum cure
Elongation at Break	1.7 %	1.7 %	
Adhesive Bond Strength	59.6 MPa	8650 psi	Steel-Steel; after optimum cure
	9.65 MPa @Temperature 82.2 °C	1400 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	13.4 MPa @Temperature -54.4 °C	1950 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	17.2 MPa @Temperature 25.0 °C	2500 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	48.0 µm/m-°C @Temperature 20.0 °C	26.7 µin/in-°F @Temperature 68.0 °F	
Glass Transition Temp, Tg	87.0 °C	189 °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
	93.3 °C	200 °F	Fast cure is 10 min. @ 200°F
	<= 30.0 min	<= 30.0 min	

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

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

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