

Armstrong X-81/A Epoxy Adhesive

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

Material Notes:

Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-X-81A-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	6000 cP	6000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength, Ultimate	26.5 MPa	3850 psi	after optimum cure
Elongation at Break	1.7 %	1.7 %	
Adhesive Bond Strength	37.9 MPa	5500 psi	Steel-Steel; after optimum cure
	11.7 MPa @Temperature 25.0 °C	1700 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear
	12.1 MPa @Temperature -54.4 °C	1750 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	13.1 MPa @Temperature 82.2 °C	1900 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 µm/m-°C @Temperature 20.0 °C	19.4 µin/in-°F @Temperature 68.0 °F	
Glass Transition Temp, Tg	106 °C	223 °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
Pot Life	<= 6.00 min @Temperature 25.0 °C	<= 6.00 min @Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	White	
Mix Ratio	100/10	By Weight

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