

Armstrong A-5/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-A-5A-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	23000 cP	23000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	
Tensile Strength, Ultimate	26.9 MPa	3900 psi	after optimum cure
Elongation at Break	1.9 %	1.9 %	
Adhesive Bond Strength	16.2 MPa	2350 psi	Steel-Steel; after optimum cure
	11.7 MPa @Temperature 82.2 °C	1700 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	12.1 MPa @Temperature -54.4 °C	1750 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	14.1 MPa @Temperature 25.0 °C	2050 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	76.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	42.2 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	73.0 °C	163 °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	<= 30.0 min @Temperature 25.0 °C	<= 30.0 min @Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	Silver	
Mix Ratio	100/6.5	By Weight

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