

Armstrong A-1/E Epoxy Adhesive

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

Material Notes:

A brown epoxy paste formulated with enhanced wetting capabilities to hard rubbers and rigid thermoplastics. Has low outgassing characteristics at temperatures below 250°F. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-A-1E-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	400000 cP	400000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength, Ultimate	38.6 MPa	5600 psi	after optimum cure
Elongation at Break	1.4 %	1.4 %	
Adhesive Bond Strength	40.7 MPa	5900 psi	Steel-Steel; after optimum cure
	18.3 MPa @Temperature -54.4 °C	2650 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	19.3 MPa @Temperature 25.0 °C	2800 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear
	19.3 MPa @Temperature 82.2 °C	2800 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	24.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	13.3 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	121 °C	250 °F	
Glass Transition Temp, Tg	111 °C	232 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	93.3 °C	200 °F	Optimum cure is 1 hr. @ 200°F
Pot Life	120 - 180 min @Temperature 25.0 °C	120 - 180 min @Temperature 77.0 °F	100 g

Processing Properties Descriptive Properties	Metric	English Value	Comments Comments
Color		Brown	
Mix Ratio		100/6	By Weight

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