

Armstrong A-1/A 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-1A-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	430000 cP	430000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength, Ultimate	36.5 MPa	5300 psi	after optimum cure
Elongation at Break	1.3 %	1.3 %	
Adhesive Bond Strength	32.4 MPa	4700 psi	Steel-Steel; after optimum cure
	16.5 MPa	2400 psi	Aluminum-Aluminum tensile shear
	@Temperature -54.4 °C	@Temperature -66.0 °F	
	16.5 MPa	2400 psi	Aluminum-Aluminum tensile shear
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	19.0 MPa	2750 psi	Aluminum-Aluminum tensile shear
	@Temperature 82.2 °C	@Temperature 180 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	34.0 µm/m-°C	18.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	121 °C	250 °F	
Glass Transition Temp, Tg	103 °C	217 °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
	<= 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	Brown	
Mix Ratio	100/4	By Weight

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