

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

Physical Properties	Metric	English	Comments
Viscosity	400000 cP	400000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	
Tensile Strength, Ultimate	37.9 MPa	5500 psi	after optimum cure
Elongation at Break	2.0 %	2.0 %	
Adhesive Bond Strength	51.4 MPa	7450 psi	Steel-Steel; after optimum cure
	15.9 MPa @Temperature 82.2 °C	2300 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	19.3 MPa @Temperature -54.4 °C	2800 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	19.7 MPa @Temperature 25.0 °C	2850 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	34.0 µm/m-°C @Temperature 20.0 °C	18.9 µin/in-°F @Temperature 68.0 °F	
Maximum Service Temperature, Air	121 °C	250 °F	
Glass Transition Temp, Tg	77.0 °C	171 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	22.2 °C	72.0 °F	
	73.9 °C	165 °F	Optimum cure is 30 min. @ 165°F
	149 °C	300 °F	Fast cure is 10 min. @ 300°F

Processing Properties	Metric ≤ 120 min	English ≤ 120 min	Comments
Pot Life	@Temperature 25.0 °C	@Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	Brown	
Mix Ratio	4/1	By Weight

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