

Armstrong A-31 Epoxy Adhesive

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

Material Notes:

Is a neutral-colored thixotropic paste material having a creamy or buttery consistency that will not flow even when cured at elevated temperatures A-31 also features Extremely low outgassing characteristics, making it ideal for bonding assemblies that will be subjected to a vacuum. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-A-31-Epoxy-Adhesive.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	
Tensile Strength, Ultimate	34.1 MPa	4950 psi	after optimum cure
Elongation at Break	1.8 %	1.8 %	
Adhesive Bond Strength	48.6 MPa	7050 psi	Steel-Steel; after optimum cure
	13.8 MPa @Temperature 82.2 °C	2000 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	19.0 MPa @Temperature 25.0 °C	2750 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear
	19.3 MPa @Temperature -54.4 °C	2800 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 µm/m-°C	25.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Glass Transition Temp, Tg	79.0 °C	174 °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
	149 °C	300 °F	Fast cure is 5 min. @ 300°F
Pot Life	<= 40.0 min @Temperature 25.0 °C	<= 40.0 min @Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	Neutral	
Mix Ratio	3/2	By Weight

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