

Armstrong A-4/E Epoxy Adhesive

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

Material Notes:

Is a heavy, non-metallic filled, gray paste epoxy that provides excellent thixotropic non-sag bond lines. It can be used for small volume casting applications. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-A-4E-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	500000 cP	500000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength, Ultimate	27.9 MPa	4050 psi	after optimum cure
Elongation at Break	2.7 %	2.7 %	
Adhesive Bond Strength	56.9 MPa	8250 psi	Steel-Steel; after optimum cure
	9.31 MPa @Temperature 25.0 °C	1350 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear
	16.5 MPa @Temperature 82.2 °C	2400 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	16.5 MPa @Temperature -54.4 °C	2400 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	27.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	101 °C	214 °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

Descriptive Properties	Value	Comments
Color	Grey	
Mix Ratio	100/6	By Weight

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