

Armstrong A-701 Epoxy Adhesive

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

Material Notes:

A one-component, light gray, thixotropic, non-sag epoxy adhesive. A-701 uses an inert oxide filler that provides excellent electrical insulation properties. Features high temperature, 400°F, bond strengths and outstanding chemical resistance. Requires elevate cure schedules. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-A-701-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	250000 cP	250000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	
Tensile Strength, Ultimate	47.2 MPa	6850 psi	after optimum cure
Elongation at Break	1.9 %	1.9 %	
Adhesive Bond Strength	65.5 MPa	9500 psi	Steel-Steel; after optimum cure
	30.3 MPa @Temperature -54.4 °C	4400 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	31.0 MPa @Temperature 82.2 °C	4500 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	40.3 MPa @Temperature 25.0 °C	5850 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 °C	29.4 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	204 °C	400 °F	
Glass Transition Temp, Tg	171 °C	340 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	204 °C	400 °F	Optimum cure is 1 hr. @ 400°F
	99999 min	99999 min	

Pot Life			
Processing Properties	Metric	English	Indefinite working life at 25°C (100 g)
	@ Temperature 25.0 °C	@ Temperature 77.0 °F	Comments

Descriptive Properties	Value	Comments
Color	Grey	
Mix Ratio	1 Part	

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