

Armstrong A-706 Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy, Cast, Metal Filled

Material Notes:

A one-component, gray, aluminum-filled, thixotropic, non-sag epoxy adhesive. A-706 has an in-service temperature range to 400°F, but requires 350°F minimum cure temperature. Features excellent machining and tensile properties at room temperature. A-706 is qualified under Mil. Spec. MMM-A-134, Type III. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-A-706-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	160000 cP	160000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength, Ultimate	59.6 MPa	8650 psi	after optimum cure
Elongation at Break	2.4 %	2.4 %	
Adhesive Bond Strength	34.1 MPa	4950 psi	Steel-Steel; after optimum cure
	19.3 MPa @Temperature -54.4 °C	2800 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	27.9 MPa @Temperature 82.2 °C	4050 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	42.1 MPa @Temperature 25.0 °C	6100 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	29.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	204 °C	400 °F	After 350°F minimum cure temp.
Glass Transition Temp, Tg	130 °C	266 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	177 °C	350 °F	Optimum cure is 2 hr. @ 350°F
	260 °C	500 °F	Fast cure is 10 min. @ 500°F

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

Descriptive Properties	Value	Comments
Color	Amber	
Mix Ratio	1 Part	

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