

## Armstrong A-40 Epoxy Adhesive

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

### Material Notes:

Is a high viscosity, dark gray, liquid adhesive system that is qualified under Mil. Spec. MMM-A-134, Type II. NOTE: Adhesives qualified under this Specification (A-40, A-706) feature exceptional resistance to -67°F; salt spray; anti-icing fluid; outdoor weathering jet fuels; hydrocarbon fluids; hydraulic oil; creep, etc. A-40 has a working life of 60-150 minutes at room temperature. Information provided by Ellsworth Adhesives.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Armstrong-A-40-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Armstrong-A-40-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Viscosity	19000 cP	19000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77	77	
Tensile Strength, Ultimate	41.7 MPa	6050 psi	after optimum cure
Elongation at Break	2.1 %	2.1 %	
Adhesive Bond Strength	49.0 MPa	7100 psi	Steel-Steel; after optimum cure
	15.9 MPa @Temperature -54.4 °C	2300 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	20.0 MPa @Temperature 82.2 °C	2900 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	27.6 MPa @Temperature 25.0 °C	4000 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	25.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	
Glass Transition Temp, Tg	118 °C	244 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	22.2 °C	72.0 °F	

Processing Properties	98.9 °C Metric	210 °F English	Optimum cure is 2 hr. @ 210°F Comments
	149 °C	300 °F	Fast cure is 5 min. @ 300°F
Pot Life	<= 150 min @Temperature 25.0 °C	<= 150 min @Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	Grey	
Mix Ratio	5/2	By Weight

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China