

## Armstrong A-34 Epoxy Adhesive

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

### Material Notes:

This white paste material is a fast-curing adhesive with a working life of 20-25 minutes in a 100-gram mass. Mixing ratio is a convenient 1:1. A-34 has excellent wetting properties and is suggested for bonds which will be subjected to high humidity or cryogenic temperatures. It is especially suited for bonding ABS to itself or to other substrates, plus a wide range of metals, other plastics, ceramics, or wood. A-34 meets the requirements of Mil. spec. MMM-A-187B. Information provided by Ellsworth Adhesives.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Armstrong-A-34-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Armstrong-A-34-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Viscosity	280000 cP	280000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	
Tensile Strength, Ultimate	31.4 MPa	4550 psi	after optimum cure
Elongation at Break	2.1 %	2.1 %	
Adhesive Bond Strength	26.9 MPa	3900 psi	Steel-Steel; after optimum cure
	6.55 MPa @Temperature 82.2 °C	950 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	10.0 MPa @Temperature -54.4 °C	1450 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	25.9 MPa @Temperature 25.0 °C	3750 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	61.0 °C	142 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	22.2 °C	72.0 °F	
	93.3 °C	200 °F	Optimum cure is 30 min. @ 200°F

Processing Properties	149 °C Metric	300 °F English	Fast cure is 5 min. @ 300°F Comments
Pot Life	<= 20.0 min @Temperature 25.0 °C	<= 20.0 min @Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	White	
Mix Ratio	1/1	By Weight

## Contact Songhan Plastic Technology Co.,Ltd.

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