

## Armstrong A-271 Epoxy Adhesive

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

### Material Notes:

A clear amber adhesive system. A-271 is a medium viscosity liquid with excellent wetting ability. It is ideal for bonding glass or similar smooth surfaces. It features very low shrinkage coupled with good moisture resistance. Can also be used in moderately elevated temperature environments. Information provided by Ellsworth Adhesives.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Armstrong-A-271-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Armstrong-A-271-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Viscosity	14000 cP	14000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	
Tensile Strength, Ultimate	53.4 MPa	7750 psi	after optimum cure
Elongation at Break	3.4 %	3.4 %	
Adhesive Bond Strength	32.4 MPa	4700 psi	Steel-Steel; after optimum cure
	10.3 MPa @Temperature 25.0 °C	1500 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear
	15.9 MPa @Temperature 82.2 °C	2300 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear
	15.9 MPa @Temperature -54.4 °C	2300 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Glass Transition Temp, Tg	60.0 °C	140 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	22.2 °C	72.0 °F	
	93.3 °C	200 °F	Optimum cure is 5min. @ 200°F
	149 °C	300 °F	Fast cure is 5 min. @ 300°F

Processing Properties	Metric <sup>75.0</sup> min	English <sup>75.0</sup> min	Comments
Pot Life	@Temperature 25.0 °C	@Temperature 77.0 °F	100 g

Descriptive Properties	Value	Comments
Color	Lt. Grey	
Mix Ratio	7/3	By Weight

## Contact Songhan Plastic Technology Co.,Ltd.

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