

Armstrong A-4/A Epoxy Adhesive

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

Material Notes:

Is a heavy, non-metallic filled, gray paste epoxy that provides excellent thixotropic non-sag bond lines. It can be used for small volume casting applications. Information provided by Ellsworth Adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Armstrong-A-4A-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	850000 cP	850000 cP	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	
Tensile Strength, Ultimate	23.1 MPa	3350 psi	after optimum cure
Elongation at Break	1.6 %	1.6 %	
Adhesive Bond Strength	53.4 MPa	7750 psi	Steel-Steel; after optimum cure
	11.0 MPa @Temperature 25.0 °C	1600 psi @Temperature 77.0 °F	Aluminum-Aluminum tensile shear
	12.4 MPa @Temperature -54.4 °C	1800 psi @Temperature -66.0 °F	Aluminum-Aluminum tensile shear
	17.6 MPa @Temperature 82.2 °C	2550 psi @Temperature 180 °F	Aluminum-Aluminum tensile shear

Thermal Properties	Metric	English	Comments
CTE, linear	48.0 µm/m-°C @Temperature 20.0 °C	26.7 µin/in-°F @Temperature 68.0 °F	
Glass Transition Temp, Tg	86.0 °C	187 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	22.2 °C	72.0 °F	
	73.9 °C	165 °F	Optimum cure is 2 hr. @ 165°F
Pot Life	<= 30.0 min @Temperature 25.0 °C	<= 30.0 min @Temperature 77.0 °F	100 g

Processing Properties Descriptive Properties	Metric	English Value	Comments Comments
Color		Grey	
Mix Ratio		100/4	By Weight

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