

## 3M Scotch-Weld™ 3501 B/A Gray Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive 3501 B/A Gray is a rapid room temperature curing, two-part epoxy adhesives for use in bonding many metals, wood, and a variety of plastics. Equal parts by volume are easily mixed to produce strong, impact-resistant bonds. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotch-Weld-3501-BA-Gray-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_3M-Scotch-Weld-3501-BA-Gray-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Brookfield Viscosity	>= 1.00e+6 cP	>= 1.00e+6 cP	RVF, #7 spindle, 2 rpm at RT

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75 - 80	75 - 80	
Shear Strength	2.76 MPa	400 psi	Overlap on Etched Aluminum, cured for 20 mins @ RT; ASTM D1002
	3.45 MPa	500 psi	Overlap on Etched Aluminum, cured for 30 mins @ RT; ASTM D1002
	5.17 MPa	750 psi	Overlap on Etched Aluminum, cured for 60 mins @ RT; ASTM D1002
	6.21 MPa	900 psi	Overlap on Etched Aluminum, cured for 90 mins @ RT; ASTM D1002
	12.5 MPa	1810 psi	Overlap on Etched Aluminum, Tap Water @ RT for 14 days; ASTM D1002
	13.07 MPa	1895 psi	Overlap on Etched Aluminum, Salt Spray @ 35°C for 14 days; ASTM D1002
	14.0 MPa	2030 psi	Overlap on Etched Aluminum, 100% RH @ 49°C for 14 days; ASTM D1002
	1.03 MPa	150 psi	Steel Overlap; ASTM D1002
	@Temperature 82.0 °C	@Temperature 180 °F	
	2.07 MPa	300 psi	Aluminum Overlap; ASTM D1002
	@Temperature 82.0 °C	@Temperature 180 °F	
	6.89 MPa	1000 psi	Steel Overlap; ASTM D1002
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	10.3 MPa	1500 psi	Aluminum Overlap; ASTM D1002
	@Temperature -55.0 °C	@Temperature -67.0 °F	

Mechanical Properties	Metric	English	Comments
	13.8 MPa	2000 psi	Aluminum Overlap; ASTM D1002
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	16.5 MPa	2400 psi	Aluminum Overlap; ASTM D1002
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Peel Strength	0.701 kN/m	4.00 pli	Aluminum T-Peel; ASTM D1876
	1.75 kN/m	10.0 pli	Steel T-Peel; ASTM D1876

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	
	@Temperature -50.0 - 10.0 °C	@Temperature -58.0 - 50.0 °F	
	234 µm/m-°C	130 µin/in-°F	
	@Temperature 50.0 - 110 °C	@Temperature 122 - 230 °F	
Thermal Conductivity	0.334 W/m-K	2.32 BTU-in/hr-ft²-°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+13 ohm-cm	1.20e+13 ohm-cm	
Dielectric Strength	27.6 kV/mm	700 kV/in	

Descriptive Properties	Value	Comments
Appearance	Black	Accelerator
	Gray	
	White	Base

## 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