

## 3M Scotch-Weld™ 1751 B/A Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive 1751 B/A is a gray, aluminum filled, two-part, room temperature curing structural adhesive. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotch-Weld-1751-BA-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_3M-Scotch-Weld-1751-BA-Epoxy-Adhesive.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75 - 80	75 - 80	ASTM D2240
Shear Strength	4.76 MPa	690 psi	Overlap, Maple to Polyester
	13.8 MPa	2000 psi	Overlap, Al/Al, Hyd Oil 30 days @ RT; ASTM D1002-72
	13.8 MPa	2000 psi	Overlap, Al/Al, Tap Water 30 days @ RT; ASTM D1002-72
	13.8 MPa	2000 psi	Overlap, Al/Al, 20% Salt Spray 30 days @ 35°C; ASTM D1002-72
	14.9 MPa	2160 psi	Overlap, Steel to Aluminum
	15.2 MPa	2200 psi	Overlap, Al/Al, 149°C Aged 8 days; ASTM D1002-72
	15.48 MPa	2245 psi	Overlap, Steel to Copper
	16.8 MPa	2440 psi	Overlap, Steel to Steel
	17.7 MPa	2570 psi	Overlap, Aluminum to Copper
	138 MPa	20000 psi	Overlap, Al/Al, JP-4 Fuel 30 days @ RT; ASTM D1002-72
	1.38 MPa @Temperature 82.0 °C	200 psi @Temperature 180 °F	Overlap, Steel Solvent Wipe; ASTM D1002-72
	3.45 MPa @Temperature 82.0 °C	500 psi @Temperature 180 °F	Overlap, Aluminum FPL Etch; ASTM D1002-72
	9.65 MPa @Temperature -55.0 °C	1400 psi @Temperature -67.0 °F	Overlap, Aluminum FPL Etch; ASTM D1002-72
	10.3 MPa @Temperature -55.0 °C	1500 psi @Temperature -67.0 °F	Overlap, Steel Solvent Wipe; ASTM D1002-72
13.8 MPa	2000 psi	Overlap, Aluminum FPL Etch; ASTM D1002-72	

Mechanical Properties	@Temperature 24.0 °C Metric	@Temperature 75.2 °F English	Comments
	16.5 MPa	2400 psi	Overlap, Steel Solvent Wipe; ASTM D1002-72
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Peel Strength	0.701 kN/m	4.00 pli	T-Peel, Aluminum FPL Etch; ASTM D1876-61T
	0.877 kN/m	5.00 pli	T-Peel, Steel Solvent Wipe; ASTM D1876-61T

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.385 W/m-K	2.67 BTU-in/hr-ft <sup>2</sup> -°F	

Processing Properties	Metric	English	Comments
Cure Time	480 - 720 min	8.00 - 12.0 hour	Time to Handling Strength
	10100 min	168 hour	Full
Shelf Life	24.0 Month	24.0 Month	

Descriptive Properties	Value	Comments
Appearance	Amber	Accelerator
	Gray	Base
	Gray	

## Contact Songhan Plastic Technology Co.,Ltd.

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