

## 3M Scotch-Weld™ LSB90 Flexible Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive LSB90 is a high performance, two-part, flexible epoxy adhesive offering high shear and peel adhesion and very high levels of durability. It has a 90 minute worklife, and is 1:1 mix ratio product. Ideal for bulk application through meter mix dispensing equipment. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotch-Weld-LSB90-Flexible-Epoxy.php](http://www.lookpolymers.com/polymer_3M-Scotch-Weld-LSB90-Flexible-Epoxy.php)

Physical Properties	Metric	English	Comments
Brookfield Viscosity	7000 cP	7000 cP	Accelerator, RVF #7 sp. @20 rpm at 27°C
	22000 cP	22000 cP	Base, RVF #7 sp. @20 rpm at 27°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	35 - 40	35 - 40	
Shear Strength	1.10 MPa	160 psi	Overlap, Etched Aluminum, Gasoline soak at RT-Adhesive Failure; ASTM D1002
	1.86 MPa	270 psi	Overlap, HIPS (IPA/abrade/IPA)-Adhesive Failure; ASTM D1002
	8.27 MPa	1200 psi	Overlap, PVC (IPA/abrade/IPA)-Cohesive/Substrate Failure; ASTM D1002
	8.96 MPa	1300 psi	Overlap, FRP (red) (IPA/abrade/IPA) - Substrate Failure; ASTM D1002
	10.3 MPa	1500 psi	Overlap, CRS-MEK/abrade/MEK-Adhesive/Cohesive Failure; ASTM D1002
	11.0 MPa	1600 psi	Overlap, Wood (Fir) (dry wipe)-Substrate Failure; ASTM D1002
	11.7 MPa	1700 psi	Overlap, Aluminum-MEK/abrade/MEK-Adhesive Failure/Cohesive Failure; ASTM D1002
	12.6 MPa	1830 psi	Overlap, Etched Aluminum, 10% household bleach in water-Cohesive Failure; ASTM D1002
	12.7 MPa	1840 psi	Overlap, Etched Aluminum, 65°C/80% RH-Cohesive Failure; ASTM D1002
15.3 MPa	2220 psi	Overlap, Etched Aluminum, Water soak at RT-Cohesive Failure; ASTM D1002	

Mechanical Properties	Metric Pa	English	Comments
	19.3 MPa	2800 psi	Overlap, Etched Aluminum-Cohesive Failure; ASTM D1002
	2.96 MPa @Temperature 82.0 °C	430 psi @Temperature 180 °F	Aluminum, Overlap; ASTM D1002
	18.6 MPa @Temperature 23.0 °C	2700 psi @Temperature 73.4 °F	Aluminum, Overlap; ASTM D1002
	25.5 MPa @Temperature -55.0 °C	3700 psi @Temperature -67.0 °F	Aluminum, Overlap; ASTM D1002
Peel Strength	10.5 kN/m	60.0 pli	Bell Peel Adhesion, Aluminum-etched, Cohesive Failure; ASTM D3167

Processing Properties	Metric	English	Comments
Cure Time	600 min	10.0 hour	Time to Handling Strength
	10100 min	168 hour	Full Cure

Descriptive Properties	Value	Comments
Appearance	Off-white	Base
	Off-white	Accelerator
	Off-white	

## Contact Songhan Plastic Technology Co.,Ltd.

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