

## 3M Scotch-Weld™ DP100 FR Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive DP100 FR is a two-part flame retardant (self-extinguishing) version of Scotch-Weld DP100. It meets the UL94 V-O Burn Test requirements and has a work life of 4-8 minutes after mixing. It is ideal for many applications requiring a self-extinguishing structural epoxy adhesive system. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotch-Weld-DP100-FR-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_3M-Scotch-Weld-DP100-FR-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Brookfield Viscosity	45000 - 90000 cP	45000 - 90000 cP	Base, RVF #7 spindle, 20 rpm
	40000 - 120000 cP	40000 - 120000 cP	Accelerator, RVF #7 spindle, 20 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	ASTM D2240
Modulus of Elasticity	4.48 GPa	650 ksi	
Shear Strength	1.00 MPa	145 psi	Overlap, Polyacrylic
	1.38 MPa	200 psi	Overlap, Polycarbonate
	1.65 MPa	240 psi	Overlap, PVC
	2.90 MPa	420 psi	Overlap, ABS
	4.14 MPa	600 psi	Overlap, FRP
	7.24 MPa	1050 psi	Overlap, Aluminum-MEK/abrade/MEK
	7.58 MPa	1100 psi	Overlap, Cold Rolled Steel-MEK/abrade/MEK
	14.5 MPa	2100 psi	Overlap, after tap water 30 days @ 23°C
	15.2 MPa	2200 psi	Overlap, Aluminum-Etched
	15.2 MPa	2200 psi	Overlap, after 50% RH/RT/30 days
18.6 MPa	2700 psi	Overlap, after salt spray 30 days @ 23°C	
		8.62 MPa	1250 psi
@Temperature -55.0 °C	@Temperature -67.0 °F		
15.2 MPa	2200 psi		

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	Overlap Comments
	5.52 MPa	800 psi	
	@ Temperature 82.0 °C, Time 900 sec	@ Temperature 180 °F, Time 0.250 hour	Overlap
Peel Strength	0.351 kN/m	2.00 pli	90° T-Peel, Aluminum, etched 2024 T-3; ASTM D1876-61T

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	142 °C	288 °F	

Processing Properties	Metric	English	Comments
Cure Time	10.0 - 20.0 min	0.167 - 0.333 hour	Time to Handling Strength
	1440 - 2880 min	24.0 - 48.0 hour	

Descriptive Properties	Value	Comments
Appearance	Cream	

## Contact Songhan Plastic Technology Co.,Ltd.

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