

## 3M Scotch-Weld™ TE100 Polyurethane Reactive Adhesive

Category : Polymer , Adhesive

### Material Notes:

3M™ Scotch-Weld™ Polyurethane Reactive Adhesives are a family of one-component, moisture curing, urethane adhesives. These adhesives are applied warm and bond a wide variety of substrates such as wood, fiber reinforced plastic (FRP) and many other plastics to themselves, to metal and glass. Extrudable grade with medium set time and low viscosity ideal for bonding wood. Bonds selected plastics. Yields thin glue lines. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotch-Weld-TE100-Polyurethane-Reactive-Adhesive.php](http://www.lookpolymers.com/polymer_3M-Scotch-Weld-TE100-Polyurethane-Reactive-Adhesive.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	
Brookfield Viscosity	7000 cP	7000 cP	Thermosel using spindle #27

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	
Tensile Strength at Break	29.0 MPa	4210 psi	ASTM D638 Die C
Elongation at Break	675 %	675 %	ASTM D638 Die C
Tensile Modulus	0.0841 GPa	12.2 ksi	ASMT D638 Die C
Shear Strength	1.38 MPa	200 psi	Overlap, Polystyrene
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.62 MPa	380 psi	Overlap, Maple
	@Temperature 82.0 °C	@Temperature 180 °F	
	5.58 MPa	810 psi	Overlap, FRP
	@Temperature 82.0 °C	@Temperature 180 °F	
	6.34 MPa	920 psi	Overlap, ABS, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.93 MPa	1150 psi	Overlap, Polyacrylic, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	13.2 MPa	1910 psi	Overlap, Maple
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	13.9 MPa	2010 psi	Overlap, Polycarbonate

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	14.5 MPa	2100 psi	Overlap, PVC, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	17.6 MPa	2550 psi	Overlap, FRP
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Peel Strength	2.10 kN/m	12.0 pli	T-Peel, Initial, Substrate failure
	3.86 kN/m	22.0 pli	T-Peel, Aged 71 °C for 2 weeks, Substrate failure
	5.08 kN/m	29.0 pli	180°, Polyacrylic
	12.3 kN/m	70.0 pli	180°, ABS, Cotton duck failed during testing
	12.3 kN/m	70.0 pli	180°, PVC, Cotton duck failed during testing
	13.5 kN/m	77.0 pli	180°, Polycarbonate, Cotton duck failed during testing
	14.2 kN/m	81.0 pli	180°, FRP, Cotton duck failed during testing

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	

Processing Properties	Metric	English	Comments
Cure Time	1.00 min	0.0167 hour	Set Time

Descriptive Properties	Value	Comments
Appearance	White/Off-White	

## Contact Songhan Plastic Technology Co.,Ltd.

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