

## 3M Scotch-Weld™ TE100 Black 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 adhesive 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-Black-Polyurethane-Reactive-Adhesive.php](http://www.lookpolymers.com/polymer_3M-Scotch-Weld-TE100-Black-Polyurethane-Reactive-Adhesive.php)

Physical Properties	Metric	English	Comments
Density	>= 1.05 g/cc	>= 0.0379 lb/in <sup>3</sup>	
Brookfield Viscosity	9000 cP	9000 cP	Thermosel using spindle #27

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	
Tensile Strength at Break	26.5 MPa	3840 psi	ASTM D638 Die C
Elongation at Break	675 %	675 %	ASTM D638 Die C
Tensile Modulus	0.0517 GPa	7.50 ksi	ASMT D638 Die C
Shear Strength	3.79 MPa	550 psi	Overlap, Maple
	@Temperature 82.0 °C	@Temperature 180 °F	
	4.90 MPa	710 psi	Overlap, Polystyrene, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.83 MPa	990 psi	Overlap, ABS
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.93 MPa	1150 psi	Overlap, FRP
	@Temperature 82.0 °C	@Temperature 180 °F	
	9.17 MPa	1330 psi	Overlap, Polyacrylic, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.9 MPa	1720 psi	Overlap, Polycarbonate
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	13.1 MPa	1900 psi	Overlap, PVC, Substrate Failure

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	14.5 MPa	2100 psi	Overlap, Maple
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	21.8 MPa	3160 psi	Overlap, FRP
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Peel Strength	0.175 kN/m	1.00 pli	180°, Aluminum
	0.175 kN/m	1.00 pli	180°, Glass
	1.93 kN/m	11.0 pli	180°, Polystyrene
	11.4 kN/m	65.0 pli	180°, ABS, Cotton duck failed during testing
	13.7 kN/m	78.0 pli	180°, PVC, Cotton duck failed during testing
	14.0 kN/m	80.0 pli	180°, FRP, Cotton duck failed during testing
	14.0 kN/m	80.0 pli	180°, Polyacrylic, Cotton duck failed during testing
	17.7 kN/m	101 pli	180°, Polycarbonate, 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	Black	

## Contact Songhan Plastic Technology Co.,Ltd.

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