

## 3M Scotch-Weld™ TE040 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. Low viscosity adhesive has a fast set time and is ideal for bonding most wood, plastics, metal and glass. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotch-Weld-TE040-Polyurethane-Reactive-Adhesive.php](http://www.lookpolymers.com/polymer_3M-Scotch-Weld-TE040-Polyurethane-Reactive-Adhesive.php)

Physical Properties	Metric	English	Comments
Density	>= 1.07 g/cc	>= 0.0387 lb/in <sup>3</sup>	
Brookfield Viscosity	7000 cP	7000 cP	Thermosel using spindle #27

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	35	35	
Tensile Strength at Break	19.0 MPa	2760 psi	ASTM D638 Die C
Elongation at Break	860 %	860 %	ASTM D638 Die C
Tensile Modulus	0.0197 GPa	2.85 ksi	ASMT D638 Die C
Shear Strength	1.79 MPa	260 psi	Overlap, Maple
	@Temperature 82.0 °C	@Temperature 180 °F	
	4.76 MPa	690 psi	Overlap, Polystyrene
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.07 MPa	880 psi	Overlap, FRP
	@Temperature 82.0 °C	@Temperature 180 °F	
	6.69 MPa	970 psi	Overlap, Maple
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.65 MPa	1110 psi	Overlap, Polyacrylic
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.89 MPa	1290 psi	Overlap, ABS, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.0 MPa	1590 psi	Overlap, Polycarbonate

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	14.5 MPa	2110 psi	Overlap, PVC, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	15.9 MPa	2310 psi	Overlap, FRP
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Peel Strength	3.86 kN/m	22.0 pli	180°, Polystyrene
	3.86 kN/m	22.0 pli	T-Peel, Initial, Substrate failure
	6.14 kN/m	35.0 pli	T-Peel, Aged 71 °C for 2 weeks, Substrate failure
	9.12 kN/m	52.0 pli	180°, Aluminum
	9.47 kN/m	54.0 pli	180°, Glass
	10.5 kN/m	60.0 pli	180°, Polycarbonate
	11.4 kN/m	65.0 pli	180°, ABS
	11.6 kN/m	66.0 pli	180°, FRP
	11.7 kN/m	67.0 pli	180°, Polyacrylic
	15.8 kN/m	90.0 pli	180°, PVC, 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	0.667 min	0.0111 hour	Set Time

## Contact Songhan Plastic Technology Co.,Ltd.

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