

3M Scotch-Weld™ TE200 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 fast set time, long open time ideal for bonding wood. Yields thin glue lines. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-TE200-Polyurethane-Reactive-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	
Brookfield Viscosity	3000 cP	3000 cP	Thermosel using spindle #27

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	
Tensile Strength at Break	27.6 MPa	4000 psi	ASTM D638 Die C
Elongation at Break	625 %	625 %	ASTM D638 Die C
Tensile Modulus	0.0669 GPa	9.70 ksi	ASMT D638 Die C
Shear Strength	4.27 MPa	620 psi	Overlap, Maple
	@Temperature 82.0 °C	@Temperature 180 °F	
	4.48 MPa	650 psi	Overlap, Polystyrene, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.62 MPa	1250 psi	Overlap, Polyacrylic, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.62 MPa	1250 psi	Overlap, ABS, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	10.7 MPa	1550 psi	Overlap, FRP
	@Temperature 82.0 °C	@Temperature 180 °F	
	11.7 MPa	1700 psi	Overlap, FRP, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	13.4 MPa	1950 psi	Overlap, Maple

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	14.8 MPa	2150 psi	Overlap, PVC, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	15.2 MPa	2200 psi	Overlap, Polycarbonate, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Peel Strength	1.58 kN/m	9.00 pli	180°, Polystyrene
	2.10 kN/m	12.0 pli	T-Peel, Initial
	5.43 kN/m	31.0 pli	T-Peel, Aged 71 °C for 2 weeks, Substrate failure
	8.06 kN/m	46.0 pli	180°, Polyacrylic, 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°, ABS, Cotton duck failed during testing
	14.0 kN/m	80.0 pli	180°, PVC, Cotton duck failed during testing
	15.8 kN/m	90.0 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	2.00 min	0.0333 hour	Set Time

Descriptive Properties	Value	Comments
Appearance	White/Off-White	

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