

3M Scotch-Weld™ TE015 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, low viscosity adhesive has a fast set 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-TE015-Polyurethane-Reactive-Adhesive.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength at Break	27.2 MPa	3950 psi	ASTM D638 Die C
Elongation at Break	750 %	750 %	ASTM D638 Die C
Tensile Modulus	0.172 GPa	25.0 ksi	ASMT D638 Die C
Shear Strength	2.55 MPa	370 psi	Overlap, Polystyrene
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.41 MPa	495 psi	Overlap, FRP
	@Temperature 82.0 °C	@Temperature 180 °F	
	3.79 MPa	550 psi	Overlap, Maple
	@Temperature 82.0 °C	@Temperature 180 °F	
	6.52 MPa	945 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	
	7.93 MPa	1150 psi	Overlap, PVC, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.791 MPa	1275 psi	Overlap, FRP, Substrate Failure

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	11.4 MPa	1650 psi	Overlap, Maple
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	12.1 MPa	1760 psi	Overlap, Polycarbonate
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Peel Strength	2.10 kN/m	12.0 pli	T-Peel, Initial
	3.68 kN/m	21.0 pli	180°, Polyacrylic
	4.91 kN/m	28.0 pli	180°, FRP
	5.26 kN/m	30.0 pli	T-Peel, Aged 71 °C for 2 weeks
	16.3 kN/m	93.0 pli	180°, ABS, Cotton duck failed during testing
	17.5 kN/m	100 pli	180°, Polycarbonate, Cotton duck failed during testing
	17.5 kN/m	100 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	0.250 min	0.00417 hour	Set Time

Descriptive Properties	Value	Comments
Appearance	White/Off-White	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China