

3M Scotch-Weld™ TE030 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 ideal for bonding wood. Also bonds selected plastics. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-TE030-Polyurethane-Reactive-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	
Brookfield Viscosity	16000 cP	16000 cP	Thermosel using spindle #27

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	
Tensile Strength at Break	26.2 MPa	3800 psi	ASTM D638 Die C
Elongation at Break	725 %	725 %	ASTM D638 Die C
Tensile Modulus	0.0772 GPa	11.2 ksi	ASMT D638 Die C
Shear Strength	3.03 MPa	440 psi	Overlap, Maple
	@Temperature 82.0 °C	@Temperature 180 °F	
	4.00 MPa	580 psi	Overlap, Polystyrene
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.48 MPa	650 psi	Overlap, Polyacrylic
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.31 MPa	770 psi	Overlap, ABS
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.00 MPa	870 psi	Overlap, FRP
	@Temperature 82.0 °C	@Temperature 180 °F	
	12.1 MPa	1750 psi	Overlap, Polycarbonate
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	12.1 MPa	1760 psi	Overlap, PVC, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	13.0 MPa Metric	1890 psi English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	16.4 MPa	2380 psi	Overlap, FRP
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Peel Strength	1.93 kN/m	11.0 pli	T-Peel, Initial, Substrate failure
	2.28 kN/m	13.0 pli	180°, Polyacrylic
	2.98 kN/m	17.0 pli	T-Peel, Aged 71 °C for 2 weeks, Substrate failure
	9.64 kN/m	55.0 pli	180°, Polycarbonate
	9.64 kN/m	55.0 pli	180°, ABS
	12.3 kN/m	70.0 pli	180°, PVC, Cotton duck failed during testing
	14.7 kN/m	84.0 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	0.500 min	0.00833 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