

3M Scotch-Weld™ TE031 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 a wide variety of plastics including polystyrene and polyacrylic. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-TE031-Polyurethane-Reactive-Adhesive.php

Physical Properties	Metric	English	Comments
Density	>= 1.04 g/cc	>= 0.0376 lb/in ³	
Brookfield Viscosity	13000 cP	13000 cP	Thermosel using spindle #27

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	
Tensile Strength at Break	26.9 MPa	3900 psi	ASTM D638 Die C
Elongation at Break	725 %	725 %	ASTM D638 Die C
Tensile Modulus	0.0386 GPa	5.60 ksi	ASMT D638 Die C
Shear Strength	2.34 MPa	340 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	
	5.52 MPa	800 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	
	9.31 MPa	1350 psi	Overlap, ABS, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	10.6 MPa	1540 psi	Overlap, Maple
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.5 MPa	1670 psi	Overlap, PVC, Substrate Failure

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	13.0 MPa	1890 psi	Overlap, FRP
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	14.5 MPa	2100 psi	Overlap, Polycarbonate
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Peel Strength	0.526 kN/m	3.00 pli	180°, Aluminum
	0.526 kN/m	3.00 pli	180°, Glass
	2.80 kN/m	16.0 pli	T-Peel, Initial, Substrate failure
	3.86 kN/m	22.0 pli	T-Peel, Aged 71 °C for 2 weeks, Substrate failure
	11.4 kN/m	65.0 pli	180°, Polystyrene, Cotton duck failed during testing
	13.5 kN/m	77.0 pli	180°, Polyacrylic, Cotton duck failed during testing
	14.7 kN/m	84.0 pli	180°, ABS, Cotton duck failed during testing
	16.7 kN/m	95.0 pli	180°, Polycarbonate, Cotton duck failed during testing
	16.8 kN/m	96.0 pli	180°, FRP, 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	0.500 min	0.00833 hour	Set Time

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