

3M Scotch-Weld™ TS230 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. Sprayable/extrudable grade with long set time ideal for bonding a wide variety of plastics including polystyrene and polyacrylic. Bonds aluminum and glass to plastic and wood. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-TS230-Polyurethane-Reactive-Adhesive.php

Physical Properties	Metric	English	Comments
Density	>= 1.09 g/cc	>= 0.0394 lb/in³	
Brookfield Viscosity	9000 cP	9000 cP	Thermoset using spindle #27

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	
Tensile Strength at Break	22.8 MPa	3310 psi	ASTM D638 Die C
Elongation at Break	700 %	700 %	ASTM D638 Die C
Tensile Modulus	0.0372 GPa	5.40 ksi	ASMT D638 Die C
Shear Strength	2.83 MPa	410 psi	Overlap, Maple
	@Temperature 82.0 °C	@Temperature 180 °F	
	4.07 MPa	590 psi	Overlap, Polystyrene, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.96 MPa	720 psi	Overlap, FRP
	@Temperature 82.0 °C	@Temperature 180 °F	
	6.41 MPa	930 psi	Overlap, ABS
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.83 MPa	1280 psi	Overlap, Polyacrylic, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	10.3 MPa	1490 psi	Overlap, Polycarbonate
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	10.8 MPa	1570 psi	Overlap, Maple

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	12.3 MPa	1780 psi	Overlap, PVC, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	15.5 MPa	2250 psi	Overlap, FRP
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Peel Strength	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
	8.77 kN/m	50.0 pli	180°, Polystyrene
	8.94 kN/m	51.0 pli	180°, Aluminum
	9.47 kN/m	54.0 pli	180°, Polyacrylic
	9.64 kN/m	55.0 pli	180°, ABS, Cotton duck failed during testing
	10.9 kN/m	62.0 pli	180°, Glass
	13.3 kN/m	76.0 pli	180°, PVC, Cotton duck failed during testing
	15.8 kN/m	90.0 pli	180°, FRP, Cotton duck failed during testing
	16.7 kN/m	95.0 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	2.50 min	0.0417 hour	Set Time

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