

3M Scotch-Weld™ TS115 HGS 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. Applied warm and can bond a variety of substrates such as wood, fiber reinforced plastic (FRP) and many other plastics to themselves, to metal and to glass. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-TS115-HGS-Polyurethane-Reactive-Adhesive.php

Physical Properties	Metric	English	Comments
Density	>= 1.08 g/cc	>= 0.0390 lb/in³	
Brookfield Viscosity	16000 cP	16000 cP	Thermoset using spindle #27

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47	47	
Tensile Strength at Break	22.1 MPa	3210 psi	ASTM D638 Die C
Elongation at Break	600 %	600 %	ASTM D638 Die C
Tensile Modulus	0.0228 GPa	3.30 ksi	ASMT D638 Die C
Shear Strength	0.276 MPa	40.0 psi	Overlap, FRP
	@Temperature 82.0 °C	@Temperature 180 °F	
	0.414 MPa	60.0 psi	Overlap, Maple
	@Temperature 82.0 °C	@Temperature 180 °F	
	3.59 MPa	520 psi	Overlap, Polystyrene
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.07 MPa	880 psi	Overlap, ABS, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.89 MPa	1000 psi	Overlap, Polycarbonate
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.93 MPa	1150 psi	Overlap, Polyacrylic
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.58 MPa	1390 psi	Overlap, Maple

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
	10.1 MPa	1470 psi	Overlap, PVC, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.7 MPa	1690 psi	Overlap, FRP
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Peel Strength	0.175 kN/m	1.00 pli	180°, Polystyrene
	3.68 kN/m	21.0 pli	T-Peel, Initial, Substrate failure
	4.38 kN/m	25.0 pli	T-Peel, Aged 71 °C for 2 weeks, Substrate failure
	9.47 kN/m	54.0 pli	180°, Polyacrylic
	10.9 kN/m	62.0 pli	180°, ABS
	12.6 kN/m	72.0 pli	180°, Aluminum
	14.2 kN/m	81.0 pli	180°, Glass
	15.3 kN/m	87.0 pli	180°, Polycarbonate, Cotton duck failed during testing
	16.1 kN/m	92.0 pli	180°, PVC, Cotton duck failed during testing
	16.7 kN/m	95.0 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	1.00 min	0.0167 hour	Set Time

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