

3M Scotch-Weld™ EZ250030 Polyurethane Reactive (PUR) Easy 250 Wood Adhesive

Category : Polymer , Adhesive

Material Notes:

3M™ Scotch-Weld™ Polyurethane Reactive (PUR) Easy 250 Wood Adhesive is 100% solid, warm temperature applied, moisture curing urethanes. This product bonds a wide variety of plastics and wood to themselves and to metal glass. Fast setting adhesives ideal for bonding many plastics including polystyrene and polyacrylic. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-EZ250030-Polyurethane-Reactive-PUR-Easy-250-Wood-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
Shear Strength	0.931 MPa	135 psi	Overlap, ABS, Substrate Failure
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.14 MPa	310 psi	Overlap, PVC
	@Temperature 82.0 °C	@Temperature 180 °F	
	3.72 MPa	540 psi	Overlap, Maple
	@Temperature 82.0 °C	@Temperature 180 °F	
	9.17 MPa	1330 psi	Overlap, Polyacrylic, 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	
	12.45 MPa	1805 psi	Overlap, PVC
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	14.5 MPa	2100 psi	Overlap, Polycarbonate
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.03 MPa	150 psi	

Mechanical Properties	Metric	English	Overlap, Maple Comments
	2.24 MPa @Time Error in fixSigDigits: @digits must be between 1 a sec	325 psi @Time Error in fixSigDigits: @digits must be between 1 a hour	Overlap, PVC
	3.10 MPa @Time Error in fixSigDigits: @digits must be between 1 a sec	450 psi @Time Error in fixSigDigits: @digits must be between 1 a hour	Overlap, Maple
	4.14 MPa @Time 3600 sec	600 psi @Time 1.00 hour	Overlap, PVC
	7.963 MPa @Time 259000 sec	1155 psi @Time 72.0 hour	Overlap, Maple
	8.55 MPa @Time 86400 sec	1240 psi @Time 24.0 hour	Overlap, Maple
	8.929 MPa @Time 3600 sec	1295 psi @Time 1.00 hour	Overlap, Maple
	12.24 MPa @Time 259000 sec	1775 psi @Time 72.0 hour	Overlap, PVC
	12.45 MPa @Time 605000 sec	1805 psi @Time 168 hour	Overlap, PVC
	13.1 MPa @Time 86400 sec	1900 psi @Time 24.0 hour	Overlap, PVC
Peel Strength	13.1 kN/m	75.0 pli	180°, Polyacrylic, Cotton duck failed during testing
	14.5 kN/m	83.0 pli	180°, ABS, Cotton duck failed during testing
	16.7 kN/m	95.0 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	0.500 min	0.00833 hour	Set Time

Descriptive Properties	Value	Comments
Appearance	white/off-white	

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