

3M Scotch-Weld™ 4491 Vinyl Bonding Cylinder Spray Adhesive

Category : Polymer , Adhesive

Material Notes:

Industrial grade, high performance, plasticizer resistant bulk spray adhesive formulated for bonding vinyl. The adhesive is available in a convenient, portable, no maintenance aerosol cylinder. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-4491-Vinyl-Bonding-Cylinder-Spray-Adhesive.php

Physical Properties	Metric	English	Comments
Solids Content	17.4 %	17.4 %	aerosol
	29 %	29 %	bulk
Volatile Organic Compounds (VOC) Content	576 g/l	576 g/l	

Mechanical Properties	Metric	English	Comments
Shear Strength	3.22 MPa	467 psi	Overlap, 1/8" Alum/Alum
	@Temperature 121 °C	@Temperature 250 °F	
	4.19 MPa	607 psi	Overlap, 1/8" Alum/Alum
	@Temperature 93.0 °C	@Temperature 199 °F	
	6.18 MPa	897 psi	Overlap, 1/8" Alum/Alum
	@Temperature 66.0 °C	@Temperature 151 °F	
Peel Strength	9.005 MPa	1306 psi	Overlap, 1/8" Alum/Alum
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	23.50 MPa	3409 psi	Overlap, 1/8" Alum/Alum
	@Temperature -34.0 °C	@Temperature -29.2 °F	
	0.210 kN/m	1.20 pli	After 2 week exposure to 71°C, Vinyl-Gerfor NT to Treated plywood, 1 surface Bond
	0.526 kN/m	3.00 pli	After 2 week exposure to 71°C, Vinyl-Altro to Treated plywood, 1 surface Bond
	1.17 kN/m	6.70 pli	After 2 week exposure to 71°C, Vinyl-Gerfor MK foamed backed to Stainless Steel, 1 surface Bond
	1.17 kN/m	6.70 pli	After 2 week exposure to 71°C, Vinyl-Gerfor MK foamed backed to Composite, 1 surface Bond
			After 2 week exposure to 71°C, Vinyl-

Mechanical Properties	1.23 kN/m Metric	7.00 pli English	Altro to Stainless Steel, 1 surface Bond
	1.23 kN/m	7.00 pli	After 2 week exposure to 71°C, Vinyl-Altro to Composite, 1 surface Bond
	1.45 kN/m	8.30 pli	After 2 week exposure to 71°C, Vinyl-Gerfor MK foamed backed to Treated plywood, 1 surface Bond
	1.53 kN/m	8.70 pli	After 2 week exposure to 71°C, Vinyl-Gerfor NT to Stainless Steel, 1 surface Bond
	1.53 kN/m	8.70 pli	After 2 week exposure to 71°C, Vinyl-Gerfor NT to Composite, 1 surface Bond
	1.53 kN/m	8.70 pli	After 2 week exposure to 71°C, Vinyl-Altro to Stainless Steel, 2 surface Bond
	1.98 kN/m	11.3 pli	After 2 week exposure to 71°C, Vinyl-Gerfor MK foamed backed to Stainless Steel, 2 surface Bond
	1.98 kN/m	11.3 pli	After 2 week exposure to 71°C, Vinyl-Altro to Treated plywood, 2 surface Bond
	2.16 kN/m	12.3 pli	After 2 week exposure to 71°C, Vinyl-Gerfor NT to Stainless Steel, 2 surface Bond
	2.16 kN/m	12.3 pli	After 2 week exposure to 71°C, Vinyl-Gerfor NT to Treated plywood, 2 surface Bond
	2.33 kN/m	13.3 pli	After 2 week exposure to 71°C, Vinyl-Altro to Composite, 2 surface Bond
	2.75 kN/m	15.7 pli	After 2 week exposure to 71°C, Vinyl-Gerfor MK foamed backed to Treated plywood, 2 surface Bond
	3.21 kN/m	18.3 pli	After 2 week exposure to 71°C, Vinyl-Gerfor NT to Composite, 2 surface Bond
	3.56 kN/m	20.3 pli	After 2 week exposure to 71°C, Vinyl-Gerfor MK foamed backed to Composite, 2 surface Bond
	1.23 kN/m @Temperature 66.0 °C, Time 1.21e+6 sec	7.00 pli @Temperature 151 °F, Time 336 hour	180°, Canvas/Steel
	2.37 kN/m @Temperature 24.0 °C, Time 432000 sec	13.5 pli @Temperature 75.2 °F, Time 120 hour	180°, Canvas/Steel
	2.89 kN/m	16.5 pli	

Mechanical Properties	Metric @Temperature 24.0 °C, Time 66400 sec	English @Temperature 75.2 °F, Time 24.0 hour	180° Canvas/Steel Comments
	3.07 kN/m	17.5 pli	
	@Temperature -34.0 °C, Time 1.21e+6 sec	@Temperature -29.2 °F, Time 336 hour	180°, Canvas/Steel
	4.82 kN/m	27.5 pli	
	@Temperature 24.0 °C, Time 605000 sec	@Temperature 75.2 °F, Time 168 hour	180°, Canvas/Steel
	5.43 kN/m	31.0 pli	
	@Temperature 24.0 °C, Time 1.21e+6 sec	@Temperature 75.2 °F, Time 336 hour	180°, Canvas/Steel

Descriptive Properties	Value	Comments
Appearance	Light tan	

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