



Adhesive Tensile Tests

Test Equipment: Applied Test Systems Universal Tester, Interface 5,000 pound load cell

Test set-up: Six tests were performed on each glue type; samples were glued to concrete blocks and allowed to set for a minimum of 24 hours before being tested. Samples were pulled at .050" per minute.

Samples: Post industrial resin (pvc)

OSI QB300

<i>Test</i>	<i>Sample</i>	<i>Ultimate Tensile Strength (psi)</i>
1)	EcoStud	44 pounds
2)	EcoStud	48 pounds
3)	EcoStud	57 pounds
4)	EcoStud	60 pounds
5)	EcoStud	48 pounds
6)	EcoStud	52 pounds

Average: 51.4 psi

Standard deviation: 5.5 psi

OSI SF-450

<i>Test</i>	<i>Sample</i>	<i>Ultimate Tensile Strength (psi)</i>
1)	EcoStud	76.5 pounds
2)	EcoStud	88.9 pounds
3)	EcoStud	71.6 pounds
4)	EcoStud	72.6 pounds
5)	EcoStud	76.5 pounds
6)	EcoStud	73.3 pounds

Average: 76.6 psi

Standard deviation: 5.8 psi

Chemlink M-1

<i>Test</i>	<i>Sample</i>	<i>Ultimate Tensile Strength (psi)</i>
1)	EcoStud	56 pounds
2)	EcoStud	46 pounds
3)	EcoStud	75 pounds
4)	EcoStud	53 pounds
5)	EcoStud	78 pounds
6)	EcoStud	72 pounds

Average: 63.3 psi

Standard deviation: 12.2 psi

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Chemlink Build Secure

<i>Test</i>	<i>Sample</i>	<i>Ultimate Tensile Strength (psi)</i>
1)	EcoStud	55
2)	EcoStud	58
3)	EcoStud	63
4)	EcoStud	68
5)	EcoStud	54
6)	EcoStud	59

Average: 59.5 psi
Standard deviation: 4.8 psi

PL Polyurethane Construction Adhesive

<i>Test</i>	<i>Sample</i>	<i>Ultimate Tensile Strength (psi)</i>
1)	EcoStud	38 pounds
2)	EcoStud	53 pounds
3)	EcoStud	44 pounds
4)	EcoStud	59 pounds
5)	EcoStud	47 pounds
6)	EcoStud	83 pounds

Average: 54 psi
Standard deviation: 14.6 psi

PL 375 Construction Adhesive

<i>Test</i>	<i>Sample</i>	<i>Ultimate Tensile Strength (psi)</i>
1)	EcoStud	69.6 pounds
2)	EcoStud	78.8 pounds
3)	EcoStud	82.1 pounds
4)	EcoStud	84.6 pounds
5)	EcoStud	85.9 pounds
6)	EcoStud	87.3 pounds

Average: 81.4 psi
Standard deviation: 5.9 psi

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