



# LAB REPORT

## Pull Strength Testing

Product Description	Sample Number	Pounds Of Pull	Comments
Bailey Parks - Diamondback	1A	85	1" Delamination
Bailey Parks - Diamondback	1B	41	1" Delamination
Bailey Parks - Diamondback	1C	98	1" Delamination
Bailey Parks - Diamondback	1D	34	1" Delamination
Tandem Products - Rhino Hyde	2A	94	No Delamination - Urethane tore (imperfection in surface)
Tandem Products - Rhino Hyde	2B	291	1" Delamination
Tandem Products - Rhino Hyde	2C	274	5/8" Delamination - Urethane tore
Tandem Products - Rhino Hyde	2D	108	1" Delamination
Argonics - Kryptane	3A	528	No Delamination - Urethane tore
Argonics - Kryptane	3B	522	No Delamination - slipped from jaws
Argonics - Kryptane	3C	245	No Delamination - slipped from jaws
Argonics - Kryptane	3D	486	No Delamination - slipped from jaws

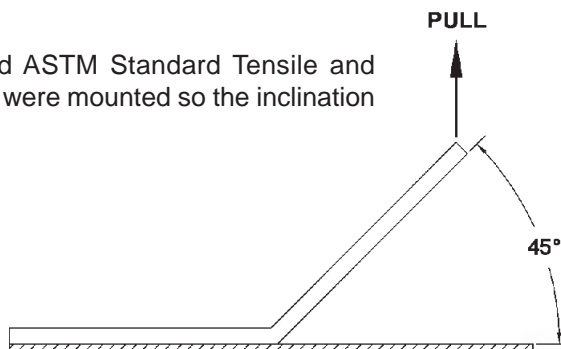
### Test Averages

Bailey Parks - Diamondback	64.5 lbs.
Tandem Products - Rhino Hyde	191.75 lbs.
Argonics - Kryptane	445.25 lbs.

### Test Conclusions

Of the twelve samples tested, we were able to achieve 1" of delamination on six samples. On three of the samples the urethane tore before delamination occurred. One sample appeared to have an imperfection in the material (air bubble) which caused early failure. Three samples were unable to be held in the pulling jaws due to a stretching and thinning of the cross section under the load achieved. The Argonics Kryptane material prevailed as the best overall bond. On average, the Kryptane to metal substrate bond was 232% better than the Tandem Products Rhino Hyde material and 690% better than the Bailey Parks Diamondback material.

Samples were tested on a United ASTM Standard Tensile and Compression Tester. The samples were mounted so the inclination of pull was upward at a 45° angle.



Samples were pulled so 1" of urethane was delaminated from the metal substrate and the highest pound rating was recorded.