



# Tech Tracks™



## Tensile Strength & Retention Vol - I

**Purpose:** Determine the tension required to break RFID & Visual tag studs at +40° C (104° F) and room temperature

### Test Methods

Testing was performed with Lloyd Instruments LFPlus tensile tester  
 The extension rate on the tensile tester was set to 19.7 inches/minute  
 The test provides a force pulling the male and female tag pieces apart on a parallel to the length of the shaft of the stud until the breaking

### Test Results at + 40° C

	Destron Fearing	Y-TEX	AllFlex
Average lbs to break	82.52	63.95	61.45
Max lbs to break	87.25	67.08	64.80
Min lbs to break	78.29	62.09	57.12
Std Dev	3.10	1.42	2.15
p-value vs Destron		P<0.0001	P<0.0001

### Conclusions

Destron Fearing Tags were 29% Stronger than Y-Tex  
 Destron Fearing Tags were 34% Stronger than AllFlex

### Test Results at Room Temperature (70° F)

	Destron Fearing	Y-TEX	AllFlex
Average lbs to break	100.03	78.18	71.28
Max lbs to break	107.56	82.24	74.01
Min lbs to break	95.45	74.23	67.04
Std Dev	3.52	2.58	2.55
p-value vs Destron		P<0.0001	P<0.0001

### Conclusions

Destron Fearing Tags were 27% Stronger than Y-Tex  
 Destron Fearing Tags were 40% Stronger than AllFlex

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