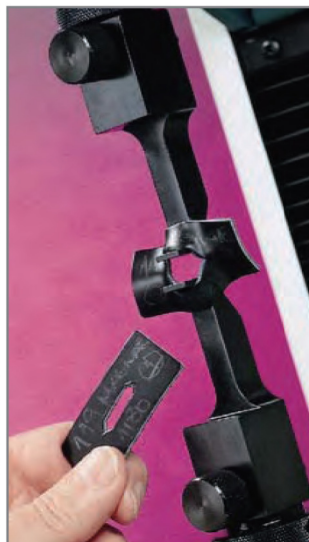




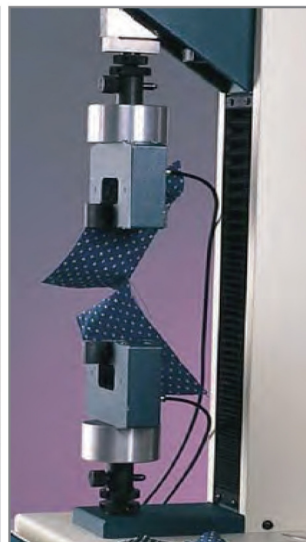
Security of Attachment (Buttons)



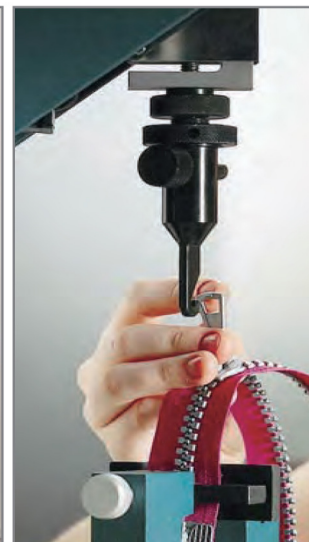
Leather Tests (tear)



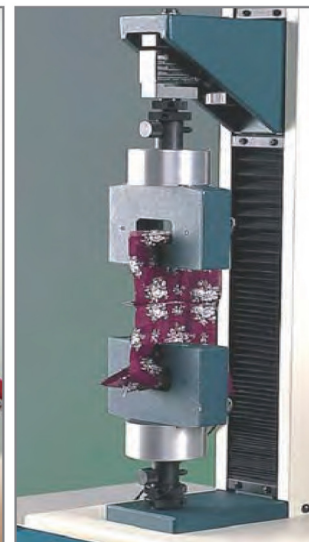
Button Break tests



Tear Tests using Pneumatic grips



Zipper tests



Seam slippage tests using pneumatic grips



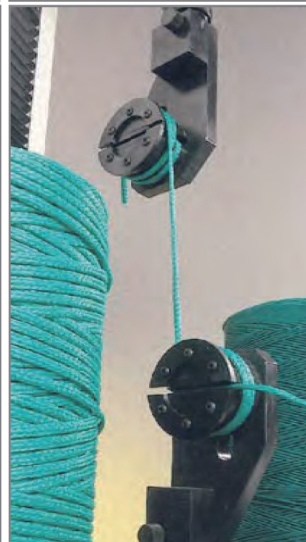
Stretch Recovery Tests



Iron friction test



Elastomer Fibre tests using pneumatic grips



String / Cord Tests



Shoe Tests



Toy Tests using pneumatic grips

**TEXTILE INDUSTRY – TYPICAL STANDARDS**

Tensile

- ISO 5081, 5082, 5079, 6939,
- ASTM D 4964, 5034, 5035, 1682.64
- BS 2576, 13934 - 1/2, 4674, 3144
- DIN 53858, 53857,
- AS 2001.2.20,
- UNI 8639, 5419,
- AFNOR G07001, G07120
- IUP6,

Tensile (Yarn)

- ISO 2062, 5079,
- ASTM D 2256, 2101,
- BS 1932/1, 3411,
- DIN 53834/1, 53816,
- UNI 1932, 8218
- AFNOR G 07003, G 07008

Seam Slippage

- ASTM D 434, 1683,
- ASTM D4033 (upholstery)
- TM11
- BS 3320
- AS 2001.2.20,
- AFNOR G 07116
- UNI 9743,

Seam Slippage Elastic Stretch

- ASTM D 3107, 1774, 1775, 4964,
- DIN 53835/13
- BS 4029, 4952,

Elastic Stretch (Hold)

- ASTM D3106, 5278,
- DIN 53835/2

Elastic Stretch (yarn)

- ASTM D1774

*Tinius Olsen Machine Model types and Capacities:*

- H1KS / T – 0 to 100kg capacity
- H5KS / T – 0 to 500kg capacity
- H10KS / T – 0 to 1000Kg capacity
- H25KS / T – 0 to 2,500kg capacity
- H50KS / T – 0 to 5,000kg capacity
- H100KT – 0 to 10,000kg capacity

**TEXTILE INDUSTRY – TYPICAL STANDARDS**

Tensile

- BS EN ISO 10319,
- BS 6906/1
- ASTM D 4632, 4595,4533

Puncture/Burst

- ISO 12236,
- ASTM D 4833,
- BS 6906/4,
- DIN E 54307,
- AFNOR G 38019

Seam

- ISO 10321,
- ASTM D 4884

Tear

- ASTM D4533

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- Tesco
- Levis
- Puma
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- Addidas
- Debenhams
- ArcadiaGroup

& many others.....

**TEXTILE INDUSTRY – TYPICAL STANDARDS**

Tear

- ENISO 9073-4
- ASTM 2261, D2262, D5587,
- BS 3424pt5, 4303, 3144,
- IUP 8

Puncture/Burst

- ASTM D751, 3786, 3787, 4830,
- BS 3424pt6, 3144,
- IUP 9

Button/Zipper

- ASTM D2061, 5170, A 136,
- BS 3084, 4162, 5131

Shoes

- BS 5131, BS 3144,
- EN 344,
- PM 113
- ISO 3377,4674,3326,2023,4643

Touch & Close Fasteners

- BS 7271
- Tensile skein
- ISO 6939,
- ASTM D 1578,
- BS 6372

Peel

- BS 3424pt7, 3144
- IUP 470
- Toys
- EN71

*Tinius Olsen Test Equipment – General Applications*

- Peel (Delamination)
- Puncture (Burst),
- Insertion
- Extraction
- Pull off
- Tension
- Compression
- Shear
- Flexure
- Tear
- Friction

**TEXTILE INDUSTRY – TYPICAL STANDARDS**

Tensile

- EN 802, 826,
- EN ISO 9073 - 3
- ASTM 5035

Tear

- EN ISO 9073 - 4
- ASTM 2261, D2262, D5587,
- BS 3424pt5, 4303,

Puncture/Burst

- ASTM DD751, 3786, 3787, 4830,
- BS 3424pt6