

Application Note

TENSILE, COMPRESSION, IMPACT, MELT FLOW, BRINELL, SHEAR, STRETCH RECOVERY, PUNCTURE, HEAT DISTORTION (VICAT), BEND/FLEXURE, SEAM STRENGTH, TORSION



Security of Attachment (Buttons)



Leather Tests (tear)



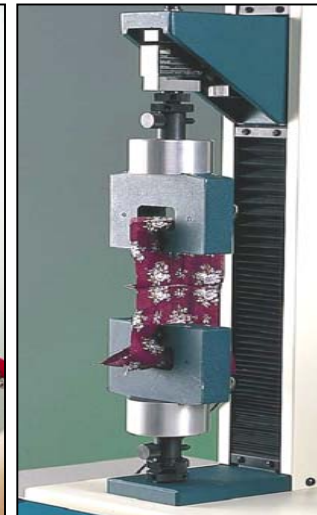
Button Break tests



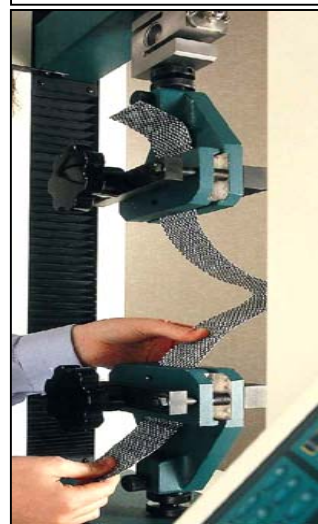
Tear Tests using Pneumatic grips



Zipper tests



Seam slippage tests using pneumatic grips



Stretch Recovery Tests



Iron friction test



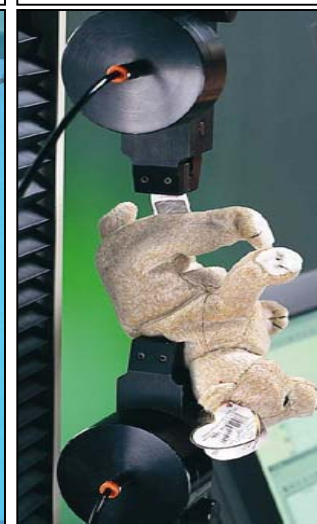
Elastomer Fibre tests using pneumatic grips



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, 139341/2, 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*)
- TM117
- 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

Hounsfield Machine Model types and Capacities:

H1KS	–	0 to 100kg capacity
H5KS	–	0 to 500kg capacity
H10KS	–	0 to 1000Kg capacity
H25KS	–	0 to 2,500kg capacity
H50KS	–	0 to 5,000kg capacity
H100KS	–	0 to 10,000kg capacity

TEXTILE INDUSTRY – TYPICAL STANDARDS

TYPICAL STANDARDS FOR GEOTEXTILES

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 Slippage

- ISO 10321,
- ASTM D 4884

Tear

- ASTM D4533

Also Routines for;

Marks & Spencers

Littlewoods

Sara Lee

Burton

Next

Gap

Nike

Tesco

Levis

Adams

Debenhams

ArcadiaGroup

British Home Stores

& many others.....

TEXTILE INDUSTRY – TYPICAL STANDARDS

Tear

- ENISO 90734
- 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

Hounsfield Test Equipment – General Applications

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

TEXTILE INDUSTRY – TYPICAL STANDARDS

TYPICAL STANDARDS FOR NON-WOVENS

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