

## 4.9 Trims

### 4.9.1 Lining

Yarn & Fibre properties			Requirements
ISO 1833 (1977) / BS 4407	Fabric composition	M	100%: no tolerance Blend: +/- 3%
ISO 2060 ISO 7211-5 (1984) meth A	Yarn Count	M	+/- 5%
ISO 7211-2 (1984)	Fabric construction/ Threads per inch	M	+/- 5%
<b>Compulsory tests</b>			
ISO 6330 ISO 5077 (2007)	Dimensional stability to washing	M	+/- 2% (Woven)
<b>Colour fastness</b>			
Change: ISO 105 A02 ISO 105-C08 (2002)  Staining: ISO 105 A03 ISO 105-C08 (2002)	Colour fastness to washing	M	Colour change: 4  Staining:4 Staining contrast colours: 4-5
ISO 105 - X12 (2002)	Colour fastness to rubbing	M	Dry: 4 Wet: 3-4  Prints and fade-out fabrics Dry: 3-4 Wet: 2-3
<b>Tests on demand</b>			
ISO 105 - E04 (2002)	Colour fastness to perspiration	O	Colour change: 4 Staining: 4  Contrast colours garments: Staining: 4-5
ISO 105 - D01 (2010)	Colour fastness to dry-cleaning	O	Colour change: 4 Staining: 4
ISO 105 – E01 (2002)/ BS 1006 E01	Colour fastness to water	O	Colour change: 4 Staining: 4
ISO 105 B02 (2002)/ BS 1006 B02	Colour fastness to light	O	Grey scale: 4 BSW: 4
<b>Mechanical &amp; Physical properties</b>			
ISO 12945-2 (2000)	Pilling resistance/ Martindale	O	3-4
ASTM D 1230-10 (2016)e1	Flammability	O	< 88 gram/m <sup>2</sup>
ISO 2960 (1974) / BS 4768 ISO 13938-1 (1999)	Bursting strength	O	> 200 gr/m <sup>2</sup> 350 kPa < 200 gr/m <sup>2</sup> 300 kPa
ISO 13936-2 (2004)	Seam slippage	O	7 kg. (S.O. 6 mm)
ISO 13934-2 (1999)	Tensile strength	O	> 200 gr/m <sup>2</sup> 200N < 200 gr/m <sup>2</sup> 180N
ISO 13935-2 (1999)	Seam strength	O	> 200 gr/m <sup>2</sup> 100N < 200 gr/m <sup>2</sup> 80N
ISO13937-1 (2000) Elmendorf	Tear strength	O	10N

**M= Mandatory / O= Optional (only on request of Wehkamp)**

#### 4.9.2 Zip-fasteners

End uses and performances for labelling purposes					
	A (Ultra-light)	B (Light)	C (Medium)	D (Medium-heavy)	E (Heavy)
Dresses	-----	-----			
Light leather goods	-----	-----			
Knitwear	-----	-----	-----		
Skirts, jeans, trousers		-----	-----		
Foundation garments			-----		
Coats, jackets			-----	-----	
Leather garments				-----	

Performance requirements of fasteners BS 3084						
Test description	Units	Performance code				
		A	B	C	D	E
Top stop attachment	N	50	70	90	110	130
Bottom stop attachment *	N	35	60	80	100	140
Box attachment #	N	40	70	90	120	150
Lateral box strength #	N	40	70	90	120	160
Lateral chain strength	N	150	200	250	370	470
Slider locking strength	N	10	15	25	40	60
Puller attachment	N	70	80	200	250	300
	<b>Minimum cycles without failure</b>					
Received	cycles	500	500	500	500	500
Dry-cleaned	cycles	500	500	500	500	500
Washed 40°C	cycles	500	500	500	500	500
NOTE: * only for open-end fasteners # only for closed-end fasteners						

#### 4.9.3 Cords and Drawstrings

NEN-EN 14682	Cords and drawstrings on children's clothing
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#### 4.9.4 Yarn

	Requirements
Stretch and elastic recovery	Stretch in %: 2 Elastic recovery in %: >85
Tensile strength and elongation at yarn break	Tensile strength of side seam: 9N Tensile strength of seat seam: 10N 5% elongation at break in polyester yarn 17% elongation at break in polyester fibre yarn 22% elongation at break in polyester filament yarn
Uniformity of yarns	The yarns should be as smooth as possible

#### 4.9.5 Buttons

Type of button	Tensile force of:
Jeans, pants, shorts fly buttons	Min. 200N
Pants, shorts fly counter button	Min. 75N
Shirts, polos, tee, sweat & knits	Min. 90N
Buttons for button down shirts collar	Min. 45N
Jackets, blazers and tailoring	Min. 150N
Buttons use at pocket and strap	Min. 75N