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Sample received: 2015-02-12

Completed: 2015-02-12 - 2015-03-10

## Test Report

Issued by an accredited testing laboratory

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### Sample

Description: One piece of woven red fabric with black fleece backing and one piece of woven pink fabric with black fleece backing. Tests performed on red fabric unless other stated.

Customers reference: LIDO.

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### Tests conducted

- Colour fastness to dry cleaning using perchloroethylene solvent (ISO 105 D01:2010)
  - (A) Colour fastness to rubbing (EN ISO 105-X12:2002)
  - Colour fastness to rubbing, perchloretylene (EN ISO 105-D02:1996)
  - Colour fastness to rubbing, shampoo (EN ISO 105-X12:2002)
  - Colour fastness to water spotting (EN ISO 105-E16:2007)
  - (A) Colour fastness to perspiration (EN ISO 105-E04:2013)
  - Seam slippage (EN ISO 13936-2:2004), fixed load
  - (A) Colour fastness to washing (EN ISO 105-C06:2010)
  - (A) Dimensional stability to washing (EN ISO 6330:2012, EN ISO 5077:2008, EN ISO 3759:2011)
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Stockholm 2015-03-10

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The result relate only to the stated items.

Testing laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (Swedac) under the terms of Swedish legislation.

The accredited laboratory activities meet the requirements in SS-EN ISO/IEC 17 025 (2005).

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(A) Accredited method

(A\*) Analysis performed by subcontracted laboratory, accredited for the method.

(\*) Analysis performed by subcontracted laboratory, not accredited for the method.



## Test method and result

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**Method:** Colour fastness to dry cleaning using perchloroethylene solvent (ISO 105 D01:2010)  
Grade 1-5 of which 5 is best.

**Result:**

<b>Staining:</b>	
-acetate	4-5
-cotton	4-5
-polyamide	4-5
-polyester	4-5
-acrylic	4-5
-wool	4-5
<b>Colour change:</b>	4-5

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**Method:** (A) Colour fastness to rubbing (EN ISO 105-X12:2002)  
Round finger, 16 mm diameter. Force 9 N.  
Grade 1-5 of which 5 is best.  
Conditioned and performed at 20±2°C, 65±4% RH, min. 24 hrs.  
Weight increase of wet rubbing cloth after soaking 95-100%.

**Result:**

	Dry	Wet
Warp	3-4	4-5
Weft	4	4-5

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**Method:** Colour fastness to rubbing, perchloretylene (EN ISO 105-D02:1996)  
Grade 1-5 of which 5 is best.

**Result:** Warp: 4-5  
Weft: 4-5

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**Method:** Colour fastness to rubbing, shampoo (EN ISO 105-X12:2002)  
Grade 1-5 of which 5 is best.

**Result:** Warp: 4-5  
Weft: 4-5

(A) Accredited method

(A\*) Analysis performed by subcontracted laboratory, accredited for the method.

(\*) Analysis performed by subcontracted laboratory, not accredited for the method.



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**Method:** Colour fastness to water spotting (EN ISO 105-E16:2007)  
Grade 1-5 of which 5 is best.

**Result:** Colour change: 4-5

Water not absorbed after 30 min removed.

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**Method:** (A) Colour fastness to perspiration (EN ISO 105-E04:2013)  
Grade 1-5 of which 5 is best. Test device containing specimen in horizontal position.

**Result:** Multifibre fabric: DW

	Acid	Alkaline
<b>Staining:</b>		
- acetate	4	4
- cotton	4-5	4-5
- polyamide	4	4
- polyester	4-5	4-5
- acrylic	4-5	4-5
- wool	4-5	4-5
<b>Colour change:</b>	4-5	4-5

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**Method:** Seam slippage (EN ISO 13936-2:2004), fixed load  
Conditioned and performed at 20±2°C, 65±4% RH.

**Result:** Warp (over weft), mm: 2  
Weft (over warp), mm: 2

Maximum force, N: 180

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(A) Accredited method

(A\*) Analysis performed by subcontracted laboratory, accredited for the method.

(\*) Analysis performed by subcontracted laboratory, not accredited for the method.



**Method:** (A) Colour fastness to washing (EN ISO 105-C06:2010)  
ECE-detergent.  
Grade 1-5 of which 5 is best.

**Result:** Multifibre fabric: TV  
Method: C1S  
Temperature, °C: 60

**Staining:**

- acetate	3
- cotton	4-5
- polyamide	2
- polyester	4-5
- acrylic	4-5
- viscose	4-5

**Colour change:** 4-5

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**Method:** (A) Dimensional stability to washing (EN ISO 6330:2012, EN ISO 5077:2008, EN ISO 3759:2011)  
Machine type A, Wascator FOM 71 MP-lab / FOM 71 CLS.  
Reference detergent no. 3, 20±1 g.  
Ballast 100% PES or 100% cotton.  
Conditioned dry mass of specimens and ballast 2 ± 0,1 kg.  
Conditioned and performed at 20±2°C, 65±4% RH.

**Result:** **Test performed on pink fabric**

Number of specimens: 3  
Washing temperature, °C: 60  
Washing process: 6N  
Ballast: 100% PES  
Drying process: Flat dry

Length, %: -1.5

Width, %: -2

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(A) Accredited method

(A\*) Analysis performed by subcontracted laboratory, accredited for the method.

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