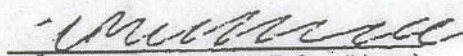


Kvadrat®
8400 Ebeltoft
Denmark

The following sample was submitted and identified by the client as:

Sample Description: Sample of upholstery fabric, quality 9501L / STRIPES
Order Reference: 55907
Fibre Composition: 92% Wool, 8% Nylon
Date Sample(s) Received: 24 August 2005
Testing Period: Tested between 24/08/05 and 08/09/05
Test(s) Requested: Abrasion Resistance
Test Results: Detailed in Appendix A

Signed for and on behalf of
SGS United Kingdom Ltd


Stephanie Mackenzie B.Sc. (Hons)
Technologist, Softlines Department

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Tests denoted with an * have been subcontracted to another UKAS Approved Laboratory. Tests marked [Non UKAS Accredited] in this Report/Certificate are not included in the UKAS Accredited Schedule for our Laboratory

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation

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Appendix A: Test Results

Martindale Abrasion Resistance (BS2543:1995 Annex B)

The test was conducted using a Martindale abrasion machine with a head loading of 12 ± 0.3 kPa, and the standard reference abradant fabric. The physically significant end point was taken as three or more threads broken though attention was paid to any relevant visual endpoint.

Fabric type	Physical end point	Visual end point
Flat woven	3 threads broken	Loss of surface effects

<u>Specimen</u>	<u>Cycles to physical end point</u>
1	75,000
2	81,000
3	86,000
4	77,000
Mean	77,000

Colour change (Flat woven):

After 6,000 cycles	4-5
After 10,000 cycles	4-5

*** End of Report***

SGS



Test Report No. BTX 31083(1)/PS/05

Date: 30 September 2005

Page 1 of 2

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Denmark

The following sample was submitted and identified by the client as:

<u>Sample Description:</u>	Fabric, quality 9501L Composition: 92% Wool/8% Nylon	<i>STRIPES</i>
<u>Details of Sample:</u>	Order Ref: 55909	
<u>Date Sample(s) Received:</u>	21 September 2005	
<u>Testing Period:</u>	Tested between 21/09/05 and 29/09/05	
<u>Test(s) Requested:</u>	Seam slippage and pilling	
<u>Test Results:</u>	Detailed in Appendix A	
<u>Comments/Conclusions:</u>	The sample submitted meets performance level B of BS EN 14465:2003 in respect of pilling resistance and performance level C of BS EN 14465:2003 in respect of Seam slippage.	

Signed for and on behalf of
SGS United Kingdom Ltd

Paula Smith
Textile Technologist
Softlines Department

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Appendix A: Test Results

Textiles-Upholstery fabrics-Specification and methods of test (BS EN 14465:2003)

Pilling Resistance : Modified Martindale (BSENISO12945-2:2000)

The fabric was tested in accordance with Table A.1 Category 2a i.e. tested against itself under 415g load. The fabric was tested in the 'as received' condition and assessed using the standard assessment table against an untested control sample.

Mean pilling rating at 2000 cycles : 4
 Mean pilling rating at 5000 cycles : 4

Rating	Description	Points to take into consideration in assessment
5	No change	No visual change
4	Slight change	Slight surface fuzzing
3	Moderate change	The test specimen may exhibit either or both of the following : a) moderate fuzzing b) isolated fully-formed pills
2	Significant change	Distinct fuzzing and/or pilling
1	Severe change	Dense fuzzing and/or pilling which covers the specimen

Determination of the slippage resistance of yarns at a seam in woven fabrics (BSENISO13936-2:2004)

The tests were performed using a constant rate of extension machine (CRE). The load was increased at a constant rate of extension of 50±5mm/min to 180N, then immediately reduced to 5N at a constant rate of 50±5mm/min. The seam opening was measured at the widest place to the nearest mm

Mean warpway seam Mean weftway seam
 5.1mm 4.0mm

*** End of Report***