



Shirley
Technologies
Limited

Confidential Report

Our Ref: 30488-1

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17 January 2012

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Our Ref: 30488-1
Your Ref:

Client: Gudbrandsdalens Uldvarefabrik as

Address: N-2626 Lillehammer
Norway

Job Title: Pilling Test on One Sample of Fabric

Client's Order Ref:

Date of Receipt: 14 December 2011

Description of Sample(s): One full width sample of woven fabric reference:-
Quality 5532 – Arkiv Collection 3 – Kvalitet 220

Work Requested: BS EN ISO 12945-2:2000, pilling (to 7,000 and 10,000 rubs)

Shirley Technologies Limited.
Registered Office : Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales
with company number 04669651. VAT Number GB 816764800.

Our laboratories are accredited to EN ISO/IEC 17025





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Testing atmosphere: Unless otherwise specified the sample(s) has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN ISO 139:2005 + A1:2011) of 65±4% r.h. and 20±2°C.

Determination of the Resistance to Pilling and Change of Appearance of Fabrics - Modified Martindale Method (#)

Specimens from the sample were tested on a modified Martindale Abrasion Machine, using wool abradant fabric and a loading weight of 415 ± 2g. The specimens were tested for 500, 1,000, 2,000, 5,000 rubs, as stated in Annex A, Table A.1, following the Category 1 procedure for upholstery fabric described in BS EN ISO 12945-2:2000, with additional assessments at 7,000 and 10,000 rubs, as requested by the Client. A tested specimen is enclosed. The specimens were visually assessed at the required intervals and rated according to the following scale:-

- 5 - no change
- 4 - slight surface fuzzing and/or partially formed pills
- 3 - moderate surface fuzzing and/or moderate pilling
- 2 - distinct surface fuzzing and/or distinct pilling
- 1 - dense surface fuzzing and/or severe pilling

Number of rubs	Pilling grade	Description
500	4	slight surface fuzzing
1,000	4	slight surface fuzzing
2,000	3-4	slight surface fuzzing, partial pilling
5,000	3-4	slight surface fuzzing, partial pilling
7,000	3-4	slight surface fuzzing, partial pilling
10,000	3-4	slight surface fuzzing, partial pilling

(#) test subcontracted.

Reported by: L I Butler (Mrs)
Senior Technician – Textiles

Countersigned by: J M Bullers (Mrs)
Operational Head – Textiles

Enquiries concerning this report should be addressed to Customer Services.

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