



Shirley
Technologies
Limited

Confidential Report

Our Ref: 29/00291A/09/13

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.
The supply of all goods and services is subject to our standard terms of
business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025





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8 October 2013

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Our Ref: 29/00291A/09/13
Your Ref:

Client: Gudbrandsdalens Uldvarefabrik as

Address: N-2626 Lillehammer
Norway

Job Title: Martindale Pilling Test on One Sample

Client's Order Ref:

Date of Receipt: 23 September 2013

Description of Sample(s): One full width sample of woven fabric referenced by the Client:-
Quality 9419

Work Requested: EN ISO 12945-2 pilling

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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 Fabric Propensity to Surface Fuzzing and Pilling—Modified Martindale Method ^(#)

Specimens from the sample were tested on a modified Martindale Abrasion Machine, using wool abrasant 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 fabrics 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 Table 1 of the Standard, summarised as follows:-

- 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	3	moderate pilling
2,000	3	moderate pilling
5,000	3	moderate pilling
7,000	3	moderate pilling
10,000	3	moderate pilling

^(#) test subcontracted.

Reported by:

L I Butler (Mrs)
Senior Technician – Textiles

Countersigned by:

J M Bullers (Mrs)
Operational Head – Textiles

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