Shirley

Confidential Report

Our Ref: 29/03666/09/25

ilac-MRA

UKAS TESTING

1066

Wira House, West Park Ring Road, Leeds, LS16 6QL, UK
Telephone: +44 (0) 113 259 1999
Email: textiles@bttg.co.uk
Website: www.bttg.co.uk

Date: 13 October 2025

Our Ref: 29/03666/09/25
Your Ref: ---

Client: **Kvadrat A/S**

Lundbergsvej 10
8400 Ebeltoft
Denmark

Job Title: Various Tests on One Sample of Fabric

Clients Order Ref: ---

Date of Receipt: 23 September 2025

Description of Sample: One sample of fabric, referenced; Hafnon, stated to be: 100% Mohair (cotton base).

Work Requested: We were asked to make the following test(s):

BS EN ISO 12947-2 - Abrasion Resistance
BS EN ISO 12945-2 - Pilling
BS EN ISO 13936-2 - Seam Slippage

* subcontracted test, UKAS accredited
** subcontracted test, EN ISO/IEC 17025 accredited
*** not UKAS accredited

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Note: This report relates only to the items tested.

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Abrasion Resistance Test: BS EN ISO 12947-2: 2016 12kPa pressure

Conditioning

Unless otherwise specified the sample 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.

Colour Change

Colour change grade at the number of rubs shown. Colour change grades range from 5 (no change) to 1 (severe change).

No. rubs	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Overall Result
3000	4	4	4	4	4

Specimen breakdown

Rubs to specimen breakdown (end point) observed using a magnification of approximately 10x. The overall result is the lowest individual result obtained during testing.

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Overall Result
No. rubs	20,000	20,000	30,000	35,000	20,000
End point type	Loss of pile spots at >5mm²	Loss of pile spots at >5mm²	Loss of pile spots at >5mm²	Loss of pile spots at >5mm²	

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Determination of Fabric Propensity to Surface Pilling, Fuzzing or Matting – Modified Martindale Method

Date of test: 09/10/2025

Three specimens from the sample were tested on a modified Martindale Abrasion Machine using wool abradant fabric and a loading weight of 415 ± 2g, as stated in Annex A, Table A.1, following the Category 1 procedure for upholstery fabrics described in BS EN ISO 12945-2:2020.

Pre-treatment: none
Deviations/ unusual features: none

The tested specimens were visually assessed by two observers and rated according to BS EN ISO 12945-4:2020.

No. of pilling rubs	Pilling				Fuzzing				Matting			
	Result 1	Result 2	Result 3	**Mean**	Result 1	Result 2	Result 3	**Mean**	Result 1	Result 2	Result 3	**Mean**
125	5	5	5	**5**	4/5	4/5	4/5	**4/5**	5	5	5	**5**
500	5	5	5	**5**	4/5	4/5	4/5	**4/5**	5	5	5	**5**
1000	5	5	5	**5**	4/5	4/5	4/5	**4/5**	5	5	5	**5**
2000	5	5	5	**5**	4/5	4/5	4/5	**4/5**	5	5	5	**5**
5000	5	5	5	**5**	4/5	4/5	4/5	**4/5**	5	5	5	**5**
7000	5	5	5	**5**	4/5	4/5	4/5	**4/5**	5	5	5	**5**

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Determination of the Slippage Resistance of Yarns at a Seam in Woven Fabrics

Date of test: 25/09/2025

Five specimens from each direction of the sample were tested in accordance with BS EN ISO 13936-1: 2004 (2007). The force required to give a seam opening of 6mm was calculated by computer software.

Direction	Mean 6mm seam opening force (N)
(warp seam) warp slippage	3.0
(weft seam) weft slippage	3.0

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (https://www.bttg.co.uk/about-us/decision-rules-policy/) for further information.

Reported by:..... K Marshall, Section Leader

Countersigned by:..... J Brewster, Section Leader

Enquiries concerning this report should be addressed to Customer Services.

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Uncertainty Budget

The overall uncertainty budget for BS EN ISO 12947-2 is as follows:-

Specimen breakdown

± 20 %

Shade change

± 0.5 Grade

The overall uncertainty budget for BS EN ISO 12945-2 is as follows:-

± 0.5 Grade

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