



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

Date: 14 July 2025

Our Ref: 23/63242E/06/25

Your Ref: ---

Page: 1 of 4

**Client:** **Gabriel A/S**

Hjulgagerve 55  
DK-900 Aalborg  
Denmark

**Job Title:** Abrasion Resistance Test on One Fabric Sample

**Clients Order Ref:** ---

**Date of Receipt:** 10 June 2025

**Date Test Started:** 30 June 2025

**Description of Sample:** One sample of upholstery fabric, which was referenced by the Client as:  
Design: Fame 2409, Colour: 60999 Black (from Scandye), Lot No.: 369872537

**Work Requested:** We were asked to test the sample as received to the following standard:  
Abrasion Resistance (BS EN ISO 12947-2:2016/AC:2006 according to BS EN 14465);  
Martindale Wear & Abrasion Tester; 12 kPa Pressure)

Notes: This report relates only to the sample submitted and as described in this report.  
This report shall not be reproduced except in full without the approval of the laboratory





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Page: 2 of 4

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**Abrasion Resistance (BS EN ISO 12947-2:2016/AC:2006 according to BS EN 14465); Martindale Wear & Abrasion Tester; 12 kPa 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	4-5	4-5	4-5	4-5	4-5

BS 2543: 2004 – Upholstery fabrics for end use applications-Classification - colour change must not be lower than grade 3 after 3000 rubs.

**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
<b>No. rubs</b>	>200,000	>200,000	>200,000	>200,000	>200,000
<b>End point type</b>	Three threads broken	Three threads broken	Three threads broken	Three threads broken	



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 Page: 3 of 4

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BS 2543: 2004 – Upholstery fabrics for end use applications-Classification - Specimen breakdown minimum requirements

	LD	GD	HD	GC	SC
<b>Flat woven</b>	15 000	20 000	25 000	30 000	40 000
<b>Pile</b>	15 000	20 000	25 000	25 000	30 000
<b>Figured weave</b>	12 000	15 000	20 000	30 000	40 000

LD = Light domestic GD = General Domestic HD = Heavy Domestic GC = General Contract SC = Severe Contract  
 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* ..... K Marshall, Section Leader

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

Enquiries concerning this report should be addressed to Customer Services.



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Page: 4 of 4

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## Uncertainty Budget

The overall uncertainty budget for BS EN 14465 Annex A is as follows:-

Specimen breakdown

± 20 %

Shade change

± 0.5 Grade

