



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

Date: 14 July 2025

Our Ref: 23/63242D/06/25

Your Ref: ---

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Client:

Gabriel A/S

Hjulgagervej 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 2B Pack), Lot No.: 3678331172

Work Requested:

We were asked to test the sample as received to the following standard:

Martindale Abrasion Resistance – BS EN 14465:2003 Annex A, 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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Abrasion Resistance Test: BS EN 14465: 2003, Annex A, 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 $65 \pm 4\%$ r.h. and $20 \pm 2^\circ\text{C}$.

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
No. rubs	>200,000	>200,000	>200,000	>200,000	>200,000
End point type	End point not reached	End point not reached	End point not reached	End point not reached	

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

	LD	GD	HD	GC	SC
Flat woven	15 000	20 000	25 000	30 000	40 000
Pile	15 000	20 000	25 000	25 000	30 000
Figured weave	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





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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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Uncertainty Budget

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

Specimen breakdown

$\pm 20 \%$

Shade change

± 0.5 Grade

