The Govmark Organization, Inc.

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Farmingdale, New York 11735-5626 USA
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Received:09/19/2012	Completed:11/19/2012	Letter: C1	rb	P.O.#:	Test Report #:	2-94187-1-
Client's Identification	Style: Crisp. Content: 93% Wool, 7% Pa.					

Tested For: **Bente Ellingsoe Attermann, Quality Department**
Gabriel A/S
Hjulmagervej 55
DK-9000 Aalborg, Denmark

Key Test: ASTM D 4966/ACT 40K 333

Tel: 011 45 3692 3205 **Ext:**
Fax: 011 45 9811 6125

CODE: 40,000 RQ /jd

TEST PERFORMED: ASTM D 4966 Martindale Abrasion Method Standard Test Method for Abrasion Resistance of Textile Fabrics (Upholstery Fabric Classification)

Abradant: Plain weave cross-bred worsted wool standard fabric, 5.8 oz/sq yd
Pressure: 1.74 psi ± 0.04 psi (12 kPa)

Foam disk is inserted if test item is less than 14.7 oz/yd².

APPROXIMATE FABRIC WEIGHT (as measured by Govmark): 10.1 oz/yd²

INTERPRETATIVE OPTIONS:

[x] Option 1: Smooth or Textured Surface Fabrics --

[x] Woven Fabric: The end point (wear) is reached when two or more threads have broken; loss of special effect yarn or pile exposing base fabric.

[ ] Knitted Fabric: The end point is reached when a hole appears.

[ ] Option 2: Slightly Napped, Brushed, Sueded Fabrics --
The end point (wear) is reached when there is a change in shade or appearance that is sufficient to cause a customer to complain. The shade end point (wear) is reached when a color change is assigned a Grey Scale rating of 3 or less.

RATING SYSTEM FOR OPTION 1:

5 - None or negligible change in appearance
4 - Slight change in appearance
3 - Moderate change in appearance
2 - Objectionable change in appearance (broken yarns, floating yarns, loss of pile, core yarn exposed, a hole, etc.)
1 - Severe change in appearance (complete fabric break, base fabric exposed, or running and pulling of knit)

RATING SYSTEM FOR OPTION 2: (AATCC Grey scale for Color Change)

Grade 5 - No color change
Grade 4 - Slight color change
Grade 3 - Noticeable color change
Grade 2 - Considerable color change
Grade 1 - Excessive color change

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RESULTS: Visual evaluation (see page 1 for Rating System)

No. of Rubs	Rating
5,000	4.5
10,000	4.5
20,000	4
30,000	4
40,000	4
	Slight thinning of surface texture.

End Point Evaluation:

Specimen #	Number of Rubs End Point
1	N/A
2	N/A
3	N/A
AVG:	

REMARKS: N/A = Not Applicable, tested to 40,000 rubs at customers request.
Additional testing requested on 10/11/12.

ACCEPTANCE CRITERIA: As cited by ACT Voluntary Performance Guidelines (January 2005) For Upholstery Materials --

General Contract Upholstery: No objectionable change in appearance at 20,000 rubs
Heavy Duty Upholstery: No objectionable change in appearance at 40,000 rubs

CONCLUSION: Based on the above Results and Acceptance Criteria, the item tested is rated for:

[x] General Contract Upholstery; [x] Heavy Duty Upholstery; [ ] Unrated

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by ASTM D 4966.

Heather E. Robertson

AUTHORIZED SIGNATURE
THE GOVMARK ORGANIZATION, INC.

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NOV 2 7 2012

MS. HEATHER ROBERTSON

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