The Govmark Organization, Inc.

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Received:08/29/2013	Completed:09/04/2013	Letter: K6	CJ	P.O.#:	Test Report #:	2-98466-6-
Client's Identification	Style: Mood. Content: 92/8 % Wool/Polyamide. Weight: 400g/m². End Use: Upholstery.					

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

Key Test: ASTM D 4966/ACT 40K 308

Tel: 011-45-9630-3100 **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): 11.8 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
20,000	4
30,000	4
40,000	4
	Slight thinning of surface texture.

End Point Evaluation:

Specimen #	Number of Rubs End Point
1	40,000
2	40,000
3	40,000
AVG:	40,000

REMARKS: None.

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. / ec/pm

MS. HEATHER ROBERTSON SEP 19 2013

The results contained in this report relate only to item(s) tested. The test report shall not be reproduced, except in full, without written approval from The Govmark Organization, Inc.