



Received:07/11/2016	Completed:08/30/2016	Letter: C	RV	P.O.#:	Test Report #:	3-14264-0-
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Client's Identification	Style: Crisp. Composition: 93%/7% Wool/Pa. Weight: 460 g/lm.
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Tested For: Bente Ellingsoe, Quality Department	Key Test: ASTM D 4966/ACT SP 200K	600
Gabriel A/S		
Hjulmagervej 55	Tel: 011-45-9630-3100	Ext:
DK-9000 Aalborg, Denmark	Fax: 011-45-9811-6125	

LE: 2012e1 V 03/15 CODE: 200,000 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): 9.7 oz/yd²

INTERPRETATIVE OPTIONS:

Option 1: Smooth or Textured Surface Fabrics --

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	4.5
30,000	4
40,000	4
50,000	4
60,000	3.5
70,000	3.5
80,000	3.5
90,000	3.5
100,000	3.5
110,000	3.5
120,000	3
125,000	3
130,000	3
135,000	3
140,000	3
145,000	3
150,000	3
155,000	3
160,000	3
165,000	3
170,000	3
175,000	3
180,000	3
185,000	3
190,000	3
195,000	3
200,000	3
	Moderate thinning of surface texture

NOTE: For tests exceeding 50,000 rubs, the abradant fabric is changed at 50,000 rubs if breakdwon has not been reached.

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End Point Evaluation:

Specimen #	Number of Rubs End Point
1	200,000
2	200,000
3	200,000
AVG:	200,000

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:

General Contract Upholstery; Heavy Duty Upholstery; Unrated

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


 AUTHORIZED SIGNATURE
 GOVMARK
 /pm /mo

M. Myllis Pettit

SEP 07 2016

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