



Received:07/11/2016 Completed:08/24/2016 Letter: J RG P.O.#: Test Report #: 3-14271-0-

Client's Identification Style: Luna Fleur. Composition: 90%/10% Wool/Pa. Weight: 800 g/lm.

Tested For: Bente Ellingsoe, Quality Department Key Test: ASTM D 4966/ACT SP 65K 320
 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): 14.2 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
15,000	4.5
20,000	4
30,000	3.5
40,000	3
45,000	3
50,000	3
55,000	3
60,000	3
65,000	2

Broken yarns

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	65,000
2	65,000
3	65,000
AVG:	65,000

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/me

Ms. Phyllis Pettit
AUG 29 2016