



Received: 12/15/2017	Completed: 01/19/2018	Letter: AAI	RV	P.O.#:	Test Report #:	3-23713-1-
Client's Identification	Style: Chess Royal. Composition: 100% Wool of New Zealand. Weight: 555 g/lm. Product End Use: Upholstery. Color #: 02406 Royal Plain.					
Tested For:	Bente Ellingsoe, Quality Department		Key Test: ASTM D 4966/ACT 70K		471	
	Gabriel A/S Hjulmagervej 55 DK-9000 Aalborg, Denmark		Tel: 011-45-9630-3100 Fax: 011-45-9811-6125		Ext:	

CODE: 100,000 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): 9.3 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
30,000	4
40,000	3.5
50,000	3.5
60,000	3.5
70,000	2.5
Broken and floating yarns	

NOTE: For tests exceeding 50,000 rubs, the wool abradant is changed after every 50,000 rubs.

End Point Evaluation:

Specimen #	Number of Rubs End Point
1	70,000
2	70,000
3	70,000
AVG:	70,000

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 Phyllis Pettit JAN 24 2018
 GOVMARK
 /tm lpm