

Report No.: 244309089e 002
Client: GABRIEL A/S
Contact Information: HJULMAGERVEJ 55, DK-9000 Aalborg

Sample Description as Declared:

No. Of Sample : ONE(1)
Product Description : LUNA 4601
End Uses : Upholstery
Colour : Please refer to material list
Style No. : -
Style Name# : -
Ref. : -
Sample obtaining method : Sending by customer

**Applicant's Provided
Care Instruction/Label:** -

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2021-02-19

Testing Period: 2021-02-19 to 2021-04-08

Place of testing: Textiles laboratory Shanghai

Other information:

Remark: The report 244309089e 002 superseded report 244309089e 001

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2021-04-28

Carmen Yan / Department Manager

Date

Name/Position

*Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.*

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Conclusion:

E001

Abrasion Resistance - Determination Of
Shade Change

#

Note:

P = Pass

F = Fail

I = Inconclusive

F# = Composite Fail

= No Comment

- = Did Not Perform

N/A = Not Applicable

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Material List:

Material No.	Material	Color	Location
E001	Textile	Blue	Fabric(LUNA 4601)

1. Abrasion Resistance

Test method : ASTM D4966-12(2016)
 Type of abradant : Wool abradant fabric (Change at 50,000 rubs if the breakdown has not been reached for testing exceeding 50,000rubs)
 Weight used : 12 kPa

<u>No. of rubs to breakdown</u>	<u>E001</u>	<u>Requirement</u>
Specimen 1	>100000	
Specimen 2	>100000	
Specimen 3	>100000	
Average	>100000	
<u>Color Change (Rating)</u>		
15,000 rubs	3.5	-
30,000 rubs	3.5	-
60,000 rubs	3.5	-
70,000 rubs	3.5	-
80,000 rubs	3.0	-
90,000 rubs	3.0	-
100,000 rubs	3.0	-

Interpretation:

End point:

- Option 1: Smooth or Textured Surface Fabric
- 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 whole appear.
- 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:

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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Sample Photo



- END -

