

Test Report

Report No.: A 825658-1



**DANISH
TECHNOLOGICAL
INSTITUTE**

Gregersensvej
DK-2630 Taastrup
Tel. +45 72 20 20 00
Fax +45 72 20 20 19

info@teknologisk.dk
www.teknologisk.dk

Assignor: Kvadrat A/S
Lundbergsvej 10
8400 Ebeltøft
Attn.: Lone Henriksen

Page 1 of 1
Chf/leln
Order no.: 825658
No. of appendices: 1

Subject: Upholstery fabric, Designated: Phlox colour 783. (as per info from the assigner)
Fiber composition: 90% cotton, 10% polyester (as per info from the assigner).



Sampling: The test material was sampled by the client and received at the Danish Technological Institute 17.08.2018

Method: See Appendix 1.

Period: The testing was completed 30.08.2018

Result: Individual results appear from Appendix 1.

Storage: The test material will be destroyed after 1 month, unless otherwise agreed.

Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Date/place: 31.08.2018, Danish Technological Institute, Wood and Biomaterials, Textile, Taastrup

Signature: Test responsible

Co-signatory



Report no.: A 825658-1
 Appendix: 1
 Page: 1 of 1
 Initials: Chf/leln

Test Methods	Results															
Colour fastness to rubbing ISO 105-X12:2016 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Staining: <u>Warp direction</u> <u>Weft direction</u> Dry rubbing: 4-5 4-5 Wet rubbing: 3 3															
Abrasion resistance - Martindale Part 2: Determination of specimen breakdown DS/EN ISO 12947-2:2016 Mass: 795 g Nominal pressure: 12 kPa End-point: 2/3 of nap worn away Colour change (1-5 scale, 5 best rating) ISO 105-A02:1993 Test conditions: 21°C, 65%RH	Individual re- >100 000 - >100 000 - >100 000 rubs sults: Colour change: 3-4 after 6000 rubs															
Determination of fabric propensity to surface fuzzing and to pilling DS/EN ISO 12945-2:2000 Modified Martindale method 1-5 scale, 5 best rating Number of test specimens: 3 Number of observers: 2 Pre-treatment: none Abradant: Wool abradant fabric Loading mass: 415 g Test conditions: 21°C, 65%RH	<table border="1"> <thead> <tr> <th><u>Assessment stage</u></th> <th><u>Number of rubs</u></th> <th><u>Pilling grade</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>500</td> <td>4-5</td> </tr> <tr> <td>2</td> <td>1000</td> <td>4-5</td> </tr> <tr> <td>3</td> <td>2000</td> <td>4</td> </tr> <tr> <td>4</td> <td>5000</td> <td>4</td> </tr> </tbody> </table> Final grade 4 The final grading at 2000 rubs relates to fuzzing	<u>Assessment stage</u>	<u>Number of rubs</u>	<u>Pilling grade</u>	1	500	4-5	2	1000	4-5	3	2000	4	4	5000	4
<u>Assessment stage</u>	<u>Number of rubs</u>	<u>Pilling grade</u>														
1	500	4-5														
2	1000	4-5														
3	2000	4														
4	5000	4														
Determination of the slippage re- sistance of yarns at a seam in woven fabrics - Fixed load method DS/EN ISO 13936-2:2004 Performed on: Standard seam Load: 180 N Test conditions: 21°C, 65%RH	Average of 5 determinations Seam parallel to warp: 2 mm seam opening Seam parallel to weft: 3 mm seam opening															