DANISH TECHNOLOGICAL INSTITUTE

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Test Report no. A 787364-1Revised

Gabriel A/S, Hjulmagervej 55, 9000 Aalborg	
Test material: Upholstery fabric	
Design: 8810 Soul melange	Received: 07-12-2017 Completed: 12-12-2017
Fibre content: 84 % wool, 16 % polyester (Manufacturer's information)	Sample no.: 787364-1Revised
Care label: (Not given)	Your ref.: Bente Ellingsøe

Test Methods	Results		
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 60098 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 60099 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 60100 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 60182 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5

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Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 61199 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 61202 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 61203 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 62060 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4	<u>Weft direction</u> 4-5 4
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 64087 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5

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Test Methods	Results		
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 66104 Staining: Dry rubbing: Wet rubbing:	Warp direction 4-5 4-5	Weft direction 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Rectangular 19 mm x 25,4 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 67039 Staining: Dry rubbing: Wet rubbing:	Warp direction 4-5 4	Weft direction 4-5 4
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 67057 Staining: Dry rubbing: Wet rubbing:	Warp direction 4-5 4-5	Weft direction 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 67058 Staining: Dry rubbing: Wet rubbing:	Warp direction 4-5 4-5	Weft direction 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 66158 Staining: Dry rubbing: Wet rubbing:	Warp direction 4-5 4-5	Weft direction 4-5 4-5

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Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 68068 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4	<u>Weft direction</u> 4-5 4
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 68087 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 68128 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5
Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 68132 Staining: Dry rubbing: Wet rubbing:	<u>Warp direction</u> 4-5 4-5	<u>Weft direction</u> 4-5 4-5

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Colour fastness to rubbing ISO 105-X12:2001 + DS/EN ISO 105-X12:2002 + 1-5 scale, 5 best rating Rubbing finger: Cylinder 16 mm Force: 9 N Test conditions: 21°C, 65%RH	Colour: 68135 Staining: Dry rubbing: Wet rubbing:	Warp direction 4-5 4	Weft direction 4-5 4

The test has been performed according to the attached conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

This report was generated by software version 2.46 of 2014-04-26.

12 December 2017, Danish Technological Institute, Textile

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The general conditions pertaining to assignments accepted by Danish Technological Institute shall apply in full to the technical testing and calibration at Danish Technological Institute and to the completion of test reports and calibration certificates within the relevant field.

Danish Accreditation (DANAK)

DANAK was established in 1991 in pursuance of the Danish Act No. 394 of 13 June 1990 on the promotion of Trade and Industry.

The requirements to be met by accredited laboratories are laid down in the "Danish Agency for Trade and Industry's ("Erhvervsfremme Styrelsens") Statutory Order on accreditation of laboratories to perform testing etc. and GLP inspection. The statutory order refers to other documents, where the criteria for accreditation are specified further.

The standards DS/EN ISO/IEC 17025 "General requirements for the competence of testing and calibration laboratories" and DS/EN 45002 "General criteria for the assessment of testing laboratories" describe fundamental criteria for accreditation. DANAK uses guidance documents to clarify the requirements in the standards, where this is considered to be necessary. These will mainly be drawn up by the "European co-operation of Accreditation (EA)" or the "International Laboratory Accreditation Co-operation (ILAC)" with the purpose of obtaining uniform criteria for accreditation. In addition, DANAK draws up Technical Regulations with specific requirements for accreditation that are not contained in the standards.

In order for a laboratory to be accredited it is, among other things, required:

- that the laboratory and its personnel are not subject to any commercial, financial or other pressures, which might influence their technical judgement
- that the laboratory operates a documented quality system
- that the laboratory has at its disposal all items of equipment, facilities and premises required for correct per formance of the service that it is accredited to perform
- that the laboratory management and personnel have technical competence and practical experience in performing the service that they are accredited to perform
- that the laboratory has procedures for traceability and uncertainty calculations
- that accredited testing or calibration is performed in accordance with fully validated and documented methods
- that the laboratory keeps records, which contain sufficient information to permit repetition of the accredited test or calibration
- that the laboratory is subject to surveillance by DANAK on a regular basis
- that the laboratory shall take out an insurance, which covers liability in connection with the performance of accredited services

Reports carrying DANAK's logo are used, when reporting accredited services and show that these have been performed in accordance with the rules for accreditation.