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Test R	eport	DANISH TECHNOLOGICAL INSTITUTE	
Report No.: A 893562-17		Gregersensvej DK-2630 Taastrup Tel. +45 72 20 20 00	
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Assignor:	Gabriel A/S Hjulmagervej 55 9000 Aalborg	Page 1 of 1 Chf/leIn Order no.: 893562 No. of appendices: 1	
Subject:	Upholstery flat woven fabric designated: Swing 51404, light grey. (as per info from the assigner).		
Sampling:	The test material was sampled by the client and received at the Danish Technological In- stitute 27.11.2019		
Method:	See Appendix 1.		
Period:	The testing was completed 10.01.2020		
Result:	Individual results appear from Appendix 1.		
Storage:	The test material will be destroyed after 6 months, unless otherwise agreed.		
Terms:	The accredited test was carried out according to DANAK's general conditions see <u>www.danak.dk</u> 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:	21.01.2020, Danish Technological Institute, Wood and E	Biomaterials, Textile, Taastrup	
Signature:	Test responsible	Co-signatory	



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Test Methods	Results				
Colour fastness to rubbing	Staining:	Warp dire	ection We	eft direction	
ISO 105-X12:2016	-				
1-5 scale, 5 best rating	Dry rubbing:	4-5		4-5	
Cylinder 16 mm	Wet rubbing:	4-5		4-5	
Force: 9 N					
Test conditions: 21°C, 65%RH	Colour Change:	<u>Warp dire</u>	<u>ection We</u>	<u>eft direction</u>	
	Dry rubbing:	5		5	
	Wet rubbing:	5		5	
	5				
Colour fastness to rubbing: Or-	Tetrachloroethylene	е			
ganic solvents		Warp dire	ection <u>We</u>	eft direction	
ISO 105-D02:2016					
1-5 scale, 5 best rating	Staining:	4-5		4-5	
Rubbing finger:	Change in colour	5		5	
Force: 9 N	White Spirit			6 1 1	
Test conditions: 21°C, 65%RH		Warp dire	ection We	eft direction	
,,,	Staining	4-5		4-5	
	Change in colour	5		5	
Colour fastness to perspiration	Staining of:	Acid solu	ition Alka	line solution	
DS/EN ISO 105-E04:2013				· -	
1-5 scale, 5 best rating	Acetate	4-5		4-5	
Test pieces: 4 x 10 cm	Polyamide	4-5 4-5		4-5 4-5	
Adjacent fabric:	Polvester	4-5		4-5	
Multifibre DW, ISO 105-F10:1989	Acrylic	4-5		4-5	
Test conditions: 21°C, 65%RH	Wool	4-5		4-5	
	Change in colour:	4-5		4-5	
Modified abrasion resistance –					
Martindale					
Part 2: Determination of specimen	*Individual re- >100000 ->100000 ->100000->100000 rubs				
breakdown	suits.				
DS/EN ISO 12947-2:2016	Colour change:		Note 4	I-5 after 3000 i	rubs
Mass: 795 g	Colour change:	0	Note 4	-5 after 6000 i	rubs
Nominal pressure: 12 kPa	*Stopped at 100000 rubs without endpoint reached				
Foam: Yes Microscope Magnifying about 10					
times.	Performance levels of abrasion resistance for a flat				
End-point: Three broken threads,	woven fabric:				
According to EN 14465:2003		•			
Colour change (1-5 scale, 5 best rat-	According to	A	В	C	
Test conditions: 21°C 65%RH	Rubs (x 1000)	> 35	12-30	4-10	
	1400 (X 1000)	2 00	12 00	110	
Colour fastness to water spotting	Colour	Chanc	ie	Stainina	
EN ISO 105-E16:2007		F	<u> </u>	<u> </u>	
Test conditions: 21°C, 65%RH		5		5	
Colour fastness to artificial light					
DS/EN ISO 105:B02:2014	Colour fastness:			6	
1-8 scale 8 hest rating					
Normal conditions					
Apparatus: Atlas Ci4000 Xenon					
Weather-Ometer					

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Test Methods	Results	
Colour fastness to dry cleaning EN ISO 105-D01:2010 1-5 scale, 5 best rating Solvent: Perchlorethylene Adjacent fabric: Multifibre DW, ISO 105-F10:1989 Test conditions: 21°C, 65%RH	Staining of: Acetate Cotton Polyamide Polyester Acrylic Wool	4-5 4-5 4-5 4-5 4-5 4-5
	Change in colour:	4-5