

TEST REPORT

LAB NO.:

TO: TAIWAN AXROMA TECHNICAL TEXTILE CO., LTD.

DATE IN: **DATE OUT:**

(6222)349-0105 **REVISED-1** DEC. 15, 2022 DEC. 27, 2022

MOD. DATE: PAGE: WORKING DAYS:

1 OF 5 8 (ADD LIGHT AND STAIN REMOVAL **RESULTS ON JAN.** 10, 2023.)

PURPOSE OF TEST:

only.

To evaluate the submitted sample in the test requested by the client

OVERALL RATING: DATA

SAMPLE DESCRIPTION:

Item Description:	1. 18T319-21 SDP –A sample 2. 18B386-15B (PP)- B sample
Style No.:	
P.O No.:	-
Sources/Vendor:	-
Manufacturer:	
Orig. Of Country:	
Size:	
Color:	

TEST RESULTS:

Evaluation	Criteria	Results / Rating	
	Prior to testing, weigh a piece of blotter paper per AATCC 35. Expose	Per applicant request:	
	cushion to 5 minutes of rain from a rain simulator per AATCC 35 with the	report actual data only	
	piece of blotter paper placed under the cushion. After 5 minutes, determine the	A: 204.4%	
	weight of the blotter paper that was placed under the cushion. Calculate the	B: 6.2%	
	Vater Repellency Weight Gain = $\frac{W_{wet} - \bar{W}_{dry}}{W_{dry}}$		
Water Repellency			
	$W_{wet} = Weight$ of the blotter paper after rain test		
	$W_{dry} = Weight of the dry blotter paper$		
	• Style Selections items shall have a maximum weight change of 190%.		
	• allen + roth & Origin 21 items shall have a maximum weight change of		
	180%.		

Bureau Veritas

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Evaluation	Criteria	Results / Rating
Colorfastness to Fabric Wet & Dry Crocking Required	 Using a cushion from the chair, remove the fabric from the cushion. Determine the color change grade of the cushion fabric to both wet and dry cocking per AATCC 8/116. Style Selections items shall have a minimum grade of 4.5 (per AATCC) for all crocking tests. allen + roth & Origin 21 items shall have a minimum grade of 4.5 (per AATCC) for all crocking tests. 	Per applicant request: report actual data only A: Dry: CS: Grade 4.5, Wet: CS: Grade 4.5 B: Dry: CS: Grade 4.5, Wet: CS: Grade 4.5
Colorfastness to Fabric to Static Wetting	Using a cushion from the chair, remove the fabric from the cushion. Determine the color change grade of the cushion fabric to static wetting crocking per AATCC 107. • Style Selections items shall have a minimum grade of 4.5 (per AATCC) for all tests. • allen + roth & Origin 21 items shall have a minimum grade of 5.0 (per AATCC) for multi-fiber and a minimum grade of 4.5 for all other tests.	Per applicant request: report actual data only A: CC: Grade 4.5 CS: Grade 4.5/4.5/4.5/4.5/4.5/4.5 B: CC: Grade 4.5 CS: Grade 4.5/4.5/4.5/4.5/4.5/4.5
Colorfastness to Light	 Using a cushion from the chair, remove the fabric from the cushion and record the L*a*b* color coordinates. Expose fabric sample to 240 hours of UV Light per AATCC 16 option 3. After exposure, determine the color coordinates of the exposed fabric. Determine change, ΔE, in color from the two sets of coordinates. Style Selections items shall not exceed a maximum color change (ΔE) of 1.0. allen + roth & Origin 21 items shall not exceed a maximum color change ΔE) of 1.0. 	Per applicant request: report actual data only A: CC: 4.5 B: CC: 4.5 (Evaluated by gray scale)
Tensile Strength of Fabric	 Using a cushion from the chair, remove the fabric from the cushion. Determine the strength of the fabric in both warp and weft directions per ASTM D5034. Style Selections items shall have a minimum tensile strength of 200 lbf in the warp direction and of 150 lbf in the weft direction. allen + roth & Origin 21 items shall have a minimum tensile strength of 220 lbf in the warp direction and of 180 lbf in the weft direction. 	Per applicant request: report actual data only A: Warp: Over 220.0lbf Weft: 207.2lbf B: Warp: Over 220.0lbf Weft: Over 220.0lbf
Tear Strength of Fabric	 Using a cushion from the chair, remove the fabric from the cushion. Determine the strength of the fabric in both warp and weft directions per ASTM D2261. Style Selections items shall have a minimum tear strength of 20 lbf in the warp direction and of 10 lbf in the weft direction. allen + roth & Origin 21 items shall have a minimum tear strength of 30 lbf in the warp direction and of 25 lbf in the weft direction. 	Per applicant request: report actual data only A: Warp: 37.2lbf, Weft: 32.0lbf B: Warp: 28.0lbf, Weft: 26.1lbf
Using a cushion from the chair, remove the fabric from the cushion such that seam is in the center of the fabric sample. Determine the strength of the seam using ASTM D1683, with the seam aligned in the center of the sample with the seam perpendicular to the application of force. • Style Selections items shall have a minimum seam strength of 60 lbf. • allen + roth & Origin 21 items shall have a minimum seam strength of 60 lbf.		NA / -



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Evaluation	Criteria			Results / Rating		
	Apply three soils (red wine, yellow mustard with turmeric, and					
	Mediterranean red clay powder facial grade mixed 1 to 1 with water)					
	to the fabric of the cushion per AATCC 130. After 4 hours, clean					
	soils per AATCC	C 130 using a cle	aning solution of	Dawn Ultra dish		
	soap and room te	emperature water	(mix in a ratio of	5 ml of standard		
	Dawn dish soap	to 95 ml of water	r). After cleaning,	allow cushion	Per applicant request:	
	fabric to dry com	pletely and meas	sure the L*a*b* c	olor coordinates of		
	-			of the areas where	A: Mustard soil: 2.0,	
	the soils were cle	eaned. Determine	the color different	nce. AE, between	Red wine soil: 4.5,	
		leaned. Determine the color difference, ΔE , between d areas and the unsoiled area.			Red clay soil: 4.0	
Stain Removal						
	Table	4. Color Difference Maximum Col	Cleaning ween Areas (∆E)	B: Mustard soil: 2.0,		
	Brand	Mustard Soil	Red Wine Soil	Red Clay Soil	Red wine soil: 4.5,	
	Style Selections	4.5	2.0	2.0	Red clay soil: 2.0	
	allen + roth & Origin 21	3.5	2.0	2.0	(Evaluated by gray scale)	
	• Style Selections		-	ents listed in Table requirements listed		

М	Meets	NM	Does Not Meet
PASS	Pass	FAIL	Fail



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Remark: BVCPS Contact information for this report.

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES (H.K.) LIMITED, TAIWAN BRANCH

CHAD HSIEH HARDLINE OPERATION MANAGER

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- 3. Our report includes all the tests requested by you and the results thereof. You shall have thirty days from receipt of this report to request additional testing of the samples or to notify us of any errors or omissions relating to our report; provided, however, such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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