



TEST REPORT

**TO: TAIWAN AXROMA TECHNICAL TEXTILE
CO., LTD.**

LAB NO.: (6224)326-0191

ADDENDUM-1

DATE IN: NOV. 21, 2024

DATE OUT: DEC. 25, 2024

MOD. DATE: -

PAGE: 1 OF 7

WORKING DAYS: 24(ADD
COLORFASTNESS TO
LIGHT 1000 HRS ON
FEB. 14, 2025.)

PURPOSE OF TEST: To evaluate the submitted sample in the test requested by the client only.

OVERALL RATING: PASS

SAMPLE DESCRIPTION:

Item Description:	603.813 ROCKY MOUNTAIN NAVAJO WHITE - 21F090-26A
Style No.:	-
P.O. No.:	-
Sources/Vendor:	-
Manufacturer:	-
Orig. Of Country:	-
Size:	-
Color:	-

COMMENTS:

Please see attached Test Results for detailed test data on all requested test.

Bureau Veritas

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SUMMARY OF TEST RESULTS

TEST RESULTS	PASS	FAIL	
BREAKING STRENGTH OF TEXTILE FABRICS: GRAB TEST			See Test Results
TEARING STRENGTH: TONGUE (SINGLE RIP) PROCEDURE			See Test Results
PILLING RESISTANCE: MARTINDALE PRESSURE TESTER METHOD			See Test Results
ABRASION RESISTANCE OF FABRIC: MARTINDALE ABRASION TESTER			See Test Results
RESISTANCE TO YARN SLIPPAGE IN WOVEN UPHOLSTERY FABRICS			See Test Results
WATER REPELLENCY: SPRAY TEST			See Test Results
TOTAL FLUORINE	X		See Test Results
COLORFASTNESS TO LIGHT			See Test Results

Remark: BVCPS Contact information for this report.

Technical questions:

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Concerns regarding billing:

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



**CHAD HSIEH
HARDLINE OPERATION MANAGER**

REMARKS:

1. This report is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission.
2. Our report is limited to the test samples identified herein. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted.
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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TEST RESULTS:

BREAKING STRENGTH OF TEXTILE FABRICS: GRAB TEST (ASTM D5034-09 (R2017), 1-INCH G-E, INSTRON, SPEED 12 IN/MIN)

WARP (LBF.)	Over 180
WEFT (LBF.)	Over 180

TEARING STRENGTH: TONGUE (SINGLE RIP) PROCEDURE (ASTM D2261-13(R2017)E1, INSTRON, CRE, RUBBER COATED CLAMPS)

WARP (LBS)	81.9*
WEFT (LBS)	53.5
REMARK: *UNTERABLE	

PILLING RESISTANCE: MARTINDALE PRESSURE TESTER METHOD (ASTM D4970-16E3, MARTINDALE TESTER, PHOTOGRAPHIC RATING STANDARD AT 100 MOVEMENTS,)

	RESULT
PILLING (GRADE)	4.0

ABRASION RESISTANCE OF FABRIC: MARTINDALE ABRASION TESTER (ASTM D4966-12 (R2016), OPTION 1, STANDARD ABRADANT FABRIC, 12Kpa for upholstery fabrics)

NUMBER OF RUBS TO RUPTURE	
#1	56500
#2	58500
#3	55000
AVERAGE NUMBER OF RUBS TO RUPTURE	56000



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RESISTANCE TO YARN SLIPPAGE IN WOVEN UPHOLSTERY FABRICS (ASTM D4034/D4034M-2019, 1-INCH, G-E, INSTRON, SPEED 12 IN/MIN, 7.0 ± 0.5 STITCHES PER INCH)

SEAM PARALLEL TO WARP – SEAM SLIPPAGE AT 0.25 INCH (LBF.)	44.8 SS
SEAM PARALLEL TO WARP – SEAM STRENGTH(LBF.)	111.6
MODE OF FAILURE	STB
SEAM PARALLEL TO WEFT – SEAM SLIPPAGE AT 0.25 INCH (LBF.)	47.1 SS
SEAM PARALLEL TO WEFT – SEAM STRENGTH(LBF.)	100.6
MODE OF FAILURE	STB
REMARKS: MODE OF FAILURE: SS – SEAM SLIPPAGE NSS- NO SEAM SLIPPAGE STB – SEWING THREAD BREAKAGE FRS – FABRIC RUPTURE AT SEAM	

WATER REPELLENCY: SPRAY TEST (AATCC 22-17)

	1	2	3	AVERAGE
AS RECEIVED	95	95	95	95

COLORFASTNESS TO LIGHT (AATCC16, OPTION 3, WATER COOLED, XENON-ARC LAMP, AATCC GRAY SCALE)

	Result
COLOR CHANGE @ 1000 HRS	4.5
COLORFASTNESS RATING COLOR CHANGE 5 negligible or no change 4 slightly changed 3 noticeably changed 2 considerably changed 1 much changed	

	Evaluation	Citation / Method	No. of Samples	Criteria	Result	Rating
A R	Total fluorine	California Health and Safety Code, Section 108945, 108970 / EN 14582:2016	1	<p>[BV Default - 100 mg/kg]</p> <p>Materials that are claimed or marketed to be treated with features such as oil, stain/dirt or water resistance/repellent/proof shall contain less than 100 mg/kg of total fluorine.</p> <p>Testing will be conducted only on products or materials of major accessible cookware, textile, fabric, leather, upholstery and paper/plant based materials that have claimed function(s) for water, oil and/or stain resistant/repellent/proof properties, or if noted on the TRF.</p> <p>Products covered by regulations and/or likely to have above claimed treatments (See Appendix II for product definitions):</p> <ul style="list-style-type: none"> - Apparel and textile accessories, - Outerwear, - Footwear, - Bags such as backpacks, handbags/purses and luggage, - Home textiles (including curtains, drapery, bedding, sheets, cushions, pillows, towels, tablecloths, shower curtains), - Carpets and rugs, - Indoor and outdoor furniture and furnishings, - Umbrella, - Tents, - Juvenile products, - Cosmetics, - Cookware including handles and non-stick food contact surfaces, - Menstrual products (including tampons, sanitary napkins/pads, and menstrual undergarments), - Dental floss, - Ski wax, - Cleaning products (polishes, waxes, sealants), - Aftermarket fabric treatments <p>Note:</p> <ul style="list-style-type: none"> - Major materials are considered materials comprising >20% area of the product. - A maximum of 5 major materials will be tested. - No need to perform testing if the major components contain insufficient sample weight based on 3 pieces. - Composite up to 3 like materials. For composite up to 3 colors. If any 	M See Page 6	PASS



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	Evaluation	Citation / Method	No. of Samples	Criteria	Result	Rating
				material/color in the composite exceeds 80% of the limit (80 mg/kg), based on the lowest weight component, individual materials/colors will be analyzed. - Vendor must supply non-stick coatings on metal ware in the form of a sheet without the underlying materials/metal, otherwise, testing will NOT performed - Rate as "PASS" if test result is below 100 mg/kg. - If Total Fluorine Screen is at or above 100 mg/kg, Rate as "FAIL" and conduct individual PFAS test in 'Individual PFAS' test line below - Vendor shall be responsible for the compliance of all other PFAS chemicals and materials, as well as materials with potentially related functions such as heat resistant or moisture wicking. - In lieu of testing, a test report can be submitted if dated within 1 year.		

****Results Key:**

M	Meets	NM	Does Not Meet
PASS	Pass	FAIL	Fail

TOTAL FLUORINE

Test Method	:	EN 14582:2016
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Test Item(s)	:	1 Melange light brown fabric
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Parameter	CAS No.	Unit	Detection Limit	Result	Limit
				1	
F(-)	7782-41-4	mg/kg	20	ND	100
Conclusion	-	-	-	Pass	-

Notes:

ND = Not Detected

">" = Greater Than

mg/kg = milligram(s) per kilogram % = percent 1% = 10000 mg/kg

