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AMERICAN RECREATION PRODUCTS LLC. ROOM 2501 - 2505 LEVER TECH CENTRE NO. 69-71 KING YIP STREET KWUN TONG ,KOWLOON,HONG KONG

The following sample was submitted and identified by the client as:

One sample of woven 20d 100% nylon ripstop DTRNF012-3L cutting in ocean blue.

Buyer : Sierra Designs

Manufacturer : T&A

End Use : Rainwear

Country Of Origin : Taiwan

Country Of Destination : USA

Applicant's Proposed Care : Hand wash cold, do not bleach 60C tumble dry, do

Instruction not iron

Sample Receiving Date : Mar 12, 2014

Test Performing Period : Mar 13, 2014 – Mar 19, 2014

Test Performed : Selected test(s) as requested by applicant against

specified requirement (details please refer to result

page(s)).

* * *

Test Results : Please refer to the next page(s).

Washed, residual & tested samples returned to applicant

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Conclusion : Dimensional Stability To Washing

Dimensional Stability To Washing	#
Tensile Strength	#
Tearing Strength	#
Pilling Resistance	#
Taber Abrasion	#
Abrasion Resistance	#
Water Resistance (AATCC 35)	Ν
Water Repellency	#
Fabric Weight Per Unit Area	#
Bonding Strength (AATCC 136)	#
Bonding Strength (ASTM D2724)	#
Water Resistance (JIS L1092 Method A)	#
Water Resistance (JIS L1092 Method B)	#
Flammability Test Of Clothing Textiles	#
Water Vapour Transmission of Textile	#
Fabrics	
Water Vapour Permeability of Textiles	#

Remarks: M = Meet specified requirement

= See result

Signed for and on behalf of SGS Hong Kong Ltd.

Chau Shui King, Ginny

Assistant Account Manager

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Test Results:

Dimensional Stability To Washing

(AATCC-TS-006, hand wash at 80 degree F with 7.5g of 1993 AATCC Standard Reference Detergent, tumble dry delicate less than 140 degree F, do not iron)

<u>Specified</u>
Requirement

After 1 wash

Lengthwise (%) -0.8 Widthwise (%) -0.1

After 3 wash

Lengthwise (%) -1.5

Widthwise (%) -0.8

Remarks: (+) Means extension

(-) Means shrinkage

Tensile Strength (ASTM D5034-2009 - CRE - 1" grab)

Specified

Warp (lb) 76.1 Requirement

Weft (lb) 76.11 Weft (lb) 44.5

Tearing Strength (ASTM D1424-2009; Elmendorf)

Specified Requirement

Warp yarns torn (lb) 1.2 /
Weft yarns torn (lb) 0.9

Remarks: Full scale range of pendulum for warp yarn testing is 3.6 lb.

Full scale range of pendulum for weft yarn testing is 1.8 lb.

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Pilling Resistance (ASTM D3512/D3512M-2010e2; after 30 min. tumbling in Random Tumble Pilling

Tester)

Specified Requirement

/

As received

Rating

Specimen 1 5.0

Specimen 2 5.0 Specimen 3 5.0 Average 5.0

Remarks: Pilling Rating

5 No pilling

4 Slight pilling

3 Moderate pilling

2 Severe pilling

1 Very severe pilling

Taber Abrasion

(ASTM D3884-2009, Taber (RPDH) Abrader CS-10 wheel, test option: Light duty-250g/wheel)

Specified Requirement

End Point (cycles) 5000 (Yarn

breakage)

Abrasion Resistance

(ASTM D4966-1998(2007) Option 1; Martindale Wear & Abrasion Tester; 9 kPa Pressure)

Specified Requirement

End point (cycles) Exceed 20000

Water Resistance

(Ref. AATCC 35-2006; Rain Test, 600mm head pressure, 2 minutes impact)

1. 2. 3. U.S. Custom's Requirement

The weight of the blotter

gained (g): 0.0 0.0 1.0 g max.

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Water Repellency

(AATCC 22-2010; Spray Test – Tested under controlled condition, water temperature: 27±1 °C)

Specified Requirement

			Requireme
<u>1.</u>	<u>2.</u>	<u>3.</u>	/
100	100	100	
1.	2.	3.	
_	<u>=:</u> 80	<u>80</u> 80	
		100 100 1. 2.	100 100 1. 2. 3.

Remarks: Nomenclature for rating:

100 - No sticking or wetting of the specimen face

90 - Slight random sticking or wetting of the specimen face

80 - Wetting of specimen face at spray points

70 – Partial wetting of the specimen face beyond the spray points

50 – Complete wetting of the entire specimen face beyond the spray points

0 - Complete wetting of the entire face of the specimen

Fabric Weight Per Unit Area (ASTM D3776-2009 Option C)

		<u>Specified</u>
		<u>Requirement</u>
(oz/sq.yd.)	1.81	/
(a/sa.m.)	61.5	

Bonding Strength (AATCC 136-2003)

		<u>Specified</u>
		<u>Requirement</u>
Lengthwise (g/cm)	369.2	/
Widthwise (g/cm)	207.5	

Bonding Strength (ASTM D2724-2007(2011))

		<u>Requirement</u>
Lengthwise (oz/in)	33.1	/
Widthwise (oz/in)	18.6	

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Specified

^{* (}Washing procedure:AATCC-TS-006, hand wash at 80 degree F with 7.5g of 1993 AATCC Standard Reference Detergent, tumble dry & do not iron, delicate less than 140 degree F)



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Water Resistance

(JIS L1092-2009 Method A; 60cm/ min; Low hydraulic pressure method)

Specified

Requirement

Water column (mm) 9905

Water column (cm) 990.5

Water Resistance

(JIS L1092-2009 Method B; 100kPa/min; High hydraulic pressure method)

Specified

<u>Requirement</u>

Water column (mm) 13501.9 Water column (kPa) 132.4

Flammability Test of Clothing Textiles

(16 CFR Part 1610-March 25,2008 Edition)

As claimed by the Client, fabric which made entirely of nylon, thus the sample is exempt from flammability testing in accordance with:16 CFR 1610.1(d) (2): Fabric which made entirely or in combination of acrylic, modacrylic, nylon, olefin, polyester, wool fibres

Water Vapour Transmission of Textile Fabrics (ASTM E96/E96M-13)

Procedure BW - Inverted Water Method at 73.4 °F (23 °C) & 50±2% RH

Tested Area : 0.003117 square meter Orientation : Coating facing water

Client's Specified Requirement

Result

Gram per square meter per 24 hours 5970

Water Vapour Permeability of Textiles (JIS L1099 Method B-1:2006)

Test Method : Potassium Acetate

Test Duration : 15 min.

Orientation : Face facing Potassium Acetate

Client's Specified Requirement

Result

Gram per square meter per hours 812 /
Gram per square meter per 24 19400 /

hours

*** End of Report ***

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Laboratory Summary Information for Certificate of Compliance (COC)

I (we) hereby confirm based on the test results in this report, that the product or components described below was tested and comply with the applicable rules, bans, regulations and standards under the CPSIA (Consumer Product Safety Improvement Act) or any other Act enforced by the CPSC and checked on the list below.

Product/Component description provided by submitter

Sample description	One sample of woven 20d 100% nylon ripstor
Samble describilon	One sample of woven 200 100 /6 minum musicul

DTRNF012-3L cutting in ocean blue.

Color / Location : Ocean blue

Specification No. : /
Part No. : /
Style / Item No. : /
P.O. / Ref. No. : /
Manufacturer : T&A
Supplier : /

Safety Regulation Citations

X	Wearing Apparel Flammability 16 CFR 1610
	Flammability Standard for Children's Sleepwear 16 CFR 1615 and 1616
	Small Parts 16 C.F.R. Part 1501 and 1500.50 - 53
	Sharp Points and Edges 16 CFR 1500.48 and 49
	Lead Paint Ban 16 CFR. 1303
	Lead in substrate CPSIA Section 101
	Phthalates CPSIA Section 108
	Flammability of Carpets and Rugs (16 CFR 1630 and 1631)
	Flammability of Mattress Pads (16 CFR 1632)
	Standard for the flammability of vinyl plastic film (16 CFR 1611)

Date of testing:

Date of TP testing: Mar 19, 2014

TPCA (Third Party Conformity Assessment Body):

Place of TP testing: Hong Kong

Test Report Number: <u>HKSL1403033399TX</u>
TPCA name: <u>SGS (Hong Kong) Limited</u>
TPCA telephone number: <u>852-2334 4481</u>

TPCA address: 1/F, 4/F, 5/F & Unit 301-4, 307-11, 3/F, On Wui Centre, 25 Lok Yip Road, Fanling, NT,

Hong Kong

The information on this sheet is ONLY applicable for the product tested in this report. This document cannot be considered as a COC but only as a traceability tool in order for manufacturer/importer to prepare their COC.

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