



Test Report

No.: HKSL1506085308TX

Date: Jun 10, 2015

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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 100% NYLON DTRNF012-ST, 20D NYLON RIPSTOP PD + SWR+S.PU
WP:3000MM CUTTING IN ORANGE.

Buyer	:	American Recreation Product LLC
End Use	:	FL TENT FLOOR
Style No.	:	FL TENT
Manufacturer	:	T&A
Country Of Origin	:	Taiwan
Country Of Destination	:	United States
Applicant's Proposed Care Instruction	:	MACHINE WASH IN COLD, TUMBLE DRY IN TEMPERATURE LOWER THAN 70 CELSIUS
Sample Receiving Date	:	Jun 04, 2015
Test Performing Period	:	Jun 04, 2015 – Jun 10, 2015
Test Performed	:	Selected test(s) as requested by applicant (details please refer to result page(s)).
	:	* * * *
Test Results	:	Please refer to the next page(s).

Tested and residual samples returned to applicant

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Conclusions : Colour Fastness To Washing #
Colour Fastness To Light #
Tensile Strength #
Tearing Strength #
Seam Performance #
Abrasion Resistance #
Fabric Weight Per Unit Area #
Water Repellency #
Water Resistance #
Air Permeability Of Textile #
Fabrics #
Puncture Resistance #
Taber Abrasion F

Remarks : F = Below specified requirement
= No specified requirement

Signed for and on behalf of
SGS Hong Kong Ltd.

Chau Shui King, Ginny
Assistant Account Manager

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Test Results :

Colour Fastness To Washing

(Ref. AATCC 61-2013; Test No. 2A, 45 min. Mechanical wash at 85 degree F in 0.15% 1993 AATCC Standard Reference detergent 'WOB' solution with 50 steel balls)

Change in shade	4.5*
Staining on multifibre stripe	
Acetate	4.5
Cotton	4.5
Nylon	4.5
Polyester	4.5
Acrylic	4.5
Wool	4.5

* Spot was found on the back side of fabric

Colour Fastness To Light (AATCC 16.3-2014 Option 3; Xenon-Arc Lamp)

After 20 'AATCC' Fading Unit	
Class	4.0

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Tensile Strength (ASTM D5034-2009 (2013); – CRE – 1” grab)

Warp (lb)	79.3
Weft (lb)	63.0

Tearing Strength (ASTM D1424-2009(2013); Elmendorf)

Warp yarns torn (lb)	7.4
Weft yarns torn (lb)	6.9

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

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Seam Performance (ASTM D1683/D1683M-2011a)

Slippage at 1/4 inch (lb)

Seam/Warp	21.3
Seam/Weft	36.3

Strength (lb)

Seam/Warp	FTS at 52.3 before seam open to 1/4 inch
Seam/Weft	FTS at 55.0 lb before seam open to 1/4 inch

Notes:

FTS = Fabric Tears at Seam

Abrasion Resistance

(ASTM D4966-2012 Option 1; Martindale Wear & Abrasion Tester ; 9 kPa Pressure)

End point (rubs)	Exceeds 20000
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Fabric Weight Per Unit Area (ASTM D3776/D3776M-2009a(2013); Option C)

(oz/sq.yd.)	1.22
(g/sq.m.)	41.4

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Water Repellency

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

As received

Rating

Individual reading 1	80
Individual reading 2	80
Individual reading 3	80

After 10 wash *

Rating

Individual reading 1	80
Individual reading 2	80
Individual reading 3	80

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

* Washing procedures:

(AATCC 135-2012 Option Test No.1 II A (ii); Machine wash at 80 degree F with 4 lb total loading (Type 3 dummy + specimen) normal cycle, tumble dry delicate less than 140 degree F)

Water Resistance

(JIS L1092-1998 Method A; 60cm/ min; Low hydraulic pressure method)

Water column (mm)	3293
Water column (cm)	329.3

Air Permeability Of Textile Fabrics

(JIS L1096-2010; Section 8.26 Method A; Textest FX3300 Air Permeability Tester III)

Test pressure : 125 pa
Test area : 38 sq.cm.Reading (Unit: $\text{cm}^3/\text{s}/\text{cm}^2$)

Average : Not detected*

*Remark: Not detected = below $0.05 \text{ cm}^3/\text{s}/\text{cm}^2$ **Puncture Resistance** (ASTM D751-2006)

(lb) 10.5

Taber Abrasion

(ASTM D3884-2009, Taber (RPDH) Abrader CS-10 wheel, test option : Heavy duty-500g/wheel)

		<u>Specified Requirement</u>
End Point (cycles)	1050(yarn breakage)	Min.2000 cycles

*** End of Report ***



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