



Test Report

No.: HKSL1403038514TX

Date: Mar 26, 2014

Page 1 of 6

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 on behalf of the buyer as:

One sample of woven nylon NFDTRNF012-S cutting in incense.

Buyer	:	Sierra Designs
End Use	:	Tent Wall
Style No.	:	2015 Elite Style
Manufacturer	:	T&A
Country of Origin	:	Taiwan
Exported To	:	USA
Applicant's Proposed Care Instruction	:	Machine wash in cold, tumble dry in temperature lower than 70 celsius
Sample Receiving Date	:	Mar 20, 2014
Test Performing Period	:	Mar 20, 2014 – Mar 26, 2014
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).

Residual & tested samples returned to applicant

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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.





Test Report

No.: HKSL1403038514TX

Date: Mar 26, 2014

Page 2 of 6

Conclusions : Colour Fastness To Washing #
Colour Fastness To Light #
Tensile Strength #
Tearing Strength #
Taber Abrasion #
Abrasion Resistance #
Water Repellency #
Water Resistance #
Fabric Weight Per Unit Area #
Seam Performance #
Drying Rate #
Puncture Resistance #

Remarks : # = As attached

Signed for and on behalf of
SGS Hong Kong Ltd.

Chau Shui King, Ginny
Assistant Account Manager

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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.

Test Report

No.: HKSL1403038514TX

Date: Mar 26, 2014

Page 3 of 6

Test Results :

Colour Fastness To Washing

(Ref. AATCC 61-2010; Test No. 2A, 45 min. Mechanical wash at 105 degree F in 0.15% 1993 AATCC Standard Reference detergent 'WOB' solution with 50 steel balls)

		<u>Specified Requirement</u>
Change in shade	4.0	/
Staining on multifibre stripe		
Acetate	4.5	/
Cotton	4.5	
Nylon	4.5	
Polyester	4.5	
Acrylic	4.5	
Wool	4.5	

Colour Fastness To Light (AATCC 16-2004 Option 3; Xenon-Arc Lamp)

		<u>Specified Requirement</u>
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 – CRE – 1" grab)

		<u>Specified Requirement</u>
Warp (lb)	52.4	/
Weft (lb)	36.5	

Tearing Strength (ASTM D1424-2009; Elmendorf)

		<u>Specified Requirement</u>
Warp yarns torn (lb)	7.7	/
Weft yarns torn (lb)	8.5	

Remarks : Full scale range of pendulum for warp yarn testing is 14 lb.
Full scale range of pendulum for weft yarn testing is 14 lb.

Taber Abrasion

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

		<u>Specified Requirement</u>
End Point (cycles)	3400 (yarn breakage)	/

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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.



Test Report

No.: HKSL1403038514TX

Date: Mar 26, 2014

Page 4 of 6

Abrasion Resistance

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

		<u>Specified Requirement</u>
End point (cycles)	Exceed 20000	/

Water Repellency

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

		<u>Specified Requirement</u>
<u>As received</u> Rating	90	
<u>After 10 wash *</u> Rating	85	

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 1.8 kg total loading (Type 3 ballast + specimen) and 66 ± 1 g of 1993 AATCC Standard Reference detergent, normal cycle, tumble dry delicate less than 140 degree F

Water Resistance

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

		<u>Specified Requirement</u>
Water column (mm)	1012.3	/
Water column (cm)	101.2	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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.



Test Report

No.: HKSL1403038514TX

Date: Mar 26, 2014

Page 5 of 6

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

(oz/sq.yd.) 1.16
(g/sq.m.) 39.3

Specified
Requirement
/

Seam Performance (ASTM D1683-2011)

Strength (lb)
Seam//Warp 37.4 (FTS)
Seam//Weft 34.2 (FTS)

Specified
Requirement
/

Notes: FTS = Fabric Tears at Seam

Drying Rate (ref.JIS L1096:2010; Section 8.25)

After 60 min.(%) 99.1

Specified
Requirement
/

Puncture Resistance (ASTM D751-2006)

(lb) 13.2

Specified
Requirement
/

*** End of Report ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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.



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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.