



Factory Direct Promos
3770 NW 124th Ave
Coral Springs, FL 33065
Attn: Beth Wilkerson

Test Report No: 3606359PP01R2

Date: 24 November 2014

This report supersedes previous report 3606359PP01R1 dated 03 November 2014. Updated test results as per Modified Dynamic Test method. Refer to Test Report No 3615072PP01”.

SAMPLE(S) SUBMITTED

BY THE CLIENT AS: Five (5) Reusable Bags

1. Tsunami	4. Custom Woven
2. Tornado	5. Hurricane
3. Custom Laminated	

DATE OF RECEIPT: 20 October 2014

TEST PERIOD: 27 – 29 October 2014
Modified Dynamic Test Method: 03 – 12 November 2014

TEST(S) REQUESTED: The samples were tested for;


- Capacity Test (Protocol CCD-100, Procedure Number ATP001, Section 5.3)
- Modified Dynamic Test
- Mass Per Area (weight) Of Fabric (ASTM D3776)
- Thickness Test (ASTM D1777)
- Cleanability Test (SGS Method)
- Visual Check (SGS Method)
- Heavy Metals (HDXRF)

TEST RESULTS: See Page: 2 -4, 6-9

PREPARED BY:

**SIGNED FOR AND ON BEHALF OF
SGS North America Inc:**


Apurva Kulabkar, CPLP
Package Testing Engineer, Packaging Lab


for Jason Sherrier, CPLP
Lab Manager, Packaging and Materials Lab

TEST(S) PERFORMED

Note*: Bag Sample ID - Hurricane was tested only for Cleanability and Visual Check as per clients request. It was previously tested – report number 2441077PP01, dated 24 June 2011 for Dynamic test, Static load test, capacity test and US model toxics in packaging legislation (TPCH: Toxics in packaging clearing house). Please note that all tests were passing at that time, and client confirmed same bags were provided for current testing.

TEST METHOD AS PER PROTOCOL CCD-100, PROCEDURE NUMBER ATP001, SECTION 5.3 - CAPACITY TEST

TEST RESULTS

- Using granular material, the bags were completely filled and the capacity was 15,800 cubic centimeters.
- The samples passed the test as per ATP – 001 Section 5.3.

Sample ID	Result
Tsunami	Pass
Tornado	Pass
Custom laminated	Pass
Custom Woven	Pass

TEST METHOD AS PER ASTM D3776 - MASS PER AREA (WEIGHT) OF FABRIC

Number of Readings	Sample ID (Weight (g/ m ²)			
	Tsunami	Tornado	Custom Laminated	Custom Woven
1	130.4	107.4	130.6	145.3
2	127.8	105.4	131.8	146.5
3	129.3	107.6	132.1	146.9
4	131.3	109.3	128.9	145.9
5	<u>129.5</u>	<u>107.1</u>	<u>130.3</u>	<u>147.6</u>
Mean	129.6	107.3	130.7	146.4

TEST METHOD AS PER ASTM D1777 - THICKNESS TEST

Number of Readings	Sample ID (All units in Mil)			
	Tsunami	Tornado	Custom Laminated	Custom Woven
1	14.22	21.10	13.23	8.54
2	15.32	21.10	13.76	8.85
3	14.47	21.14	12.22	8.64
4	15.50	20.11	12.94	8.95
5	15.28	19.85	13.48	8.56
6	16.49	20.27	13.63	8.99
7	14.76	19.02	13.43	8.67
8	14.83	20.68	12.09	8.82
9	14.11	19.40	12.06	8.72
10	<u>14.06</u>	<u>20.04</u>	<u>11.15</u>	<u>8.80</u>
Mean	14.70	20.27	12.80	8.75

TEST(S) PERFORMED CONTINUED

Dynamic Testing – A minimum of 22 pounds were placed in each bag and walked 125 times over a distance of at least 175 feet. At the beginning of each cycle the bags were placed on the ground and picked back up.

Material: Tsunami - Laminated Non Woven	
Total Height	
Start Height	25.125"
End Height	25.625"
Difference	0.5"
% Difference	1.99%

Material: Custom Laminated - Laminated Woven Recycled Polyethylene Terephthalate (RPET)	
Total Height	
Start Height	25.75"
End Height	26.125"
Difference	0.375"
% Difference	1.45%

Material: Tornado - Non Woven Poly Propylene (PP)	
Total Height	
Start Height	23.5"
End Height	23.75"
Difference	0.25"
% Difference	1.06%

Material: Custom Woven - Matte Laminated	
Total Height	
Start Height	24.25"
End Height	24.375"
Difference	0.125"
% Difference	0.5%

TEST RESULTS

Sample ID	Result
Tsunami	Pass
Tornado	Pass
Custom laminated	Pass
Custom Woven	Pass

PICTURES AFTER 125 CYCLES

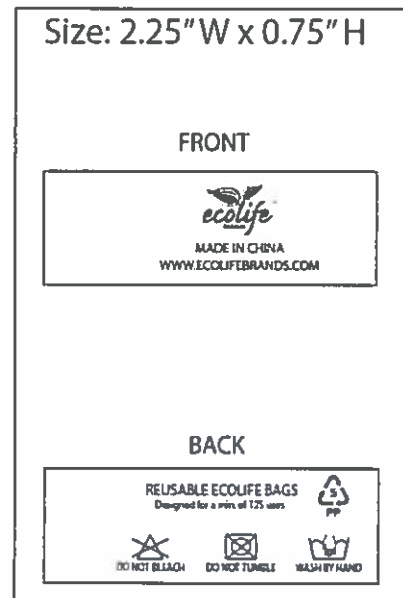
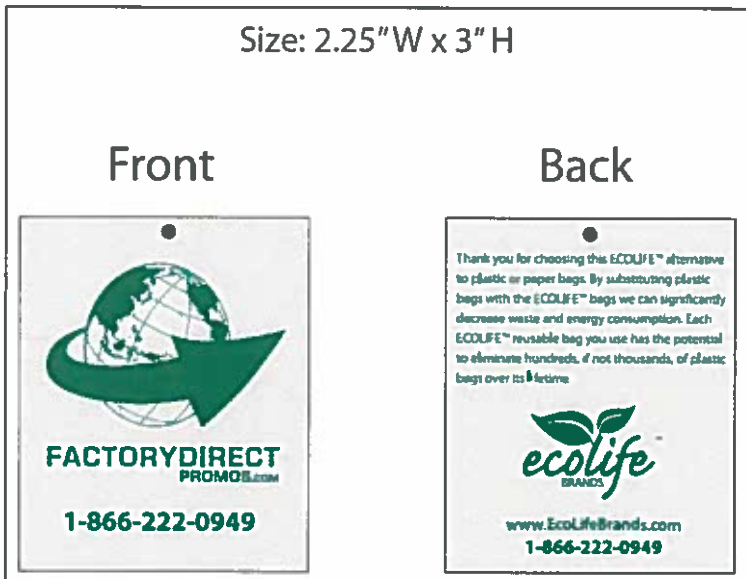


TEST(S) PERFORMED CONTINUED

Visual Check (SGS Method)

Visual Check	Tsunami	Tornado	Custom Laminated	Custom Woven	Hurricane
Plastic/Natural or synthetic fiber	Laminated Non Woven	Non Woven Poly Propylene (PP)	Laminated Woven Recycled Polyethylene Terephthalate (RPET)	Matte Laminated	Non Woven Poly Propylene (PP)
Bag Sewn	Yes	Yes	Yes	Yes	Yes
Manufacturer printed on bag or label	Yes	Yes	Yes	Yes	Yes
Manufacturing country printed on bag or label	Yes	Yes	Yes	Yes	Yes
Reusable 125 times printed on bag or label	Yes	Yes	Yes	Yes	Yes
Post consumer recycled material with percentage printed on bag or label	N/A	N/A	N/A	N/A	N/A

PICTURES



Cleanability (SGS Method)

The samples were wiped 125 times with over-the-counter anti-bacterial wipes to check for any color change and/or color fading. No color change was observed after the test.

Sample ID	Result
Tsunami	Pass
Tornado	Pass
Custom laminated	Pass
Custom Woven	Pass

TEST(S) PERFORMED CONTINUED

US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly drafted by CONEG) – Total Lead, Cadmium, Mercury and Hexavalent Chromium content (As specified by the client)

Method: Sample digestion. Lead, Cadmium and Mercury were analyzed by Inductively Coupled Argon Plasma Spectrometry and Chromium VI was analyzed by HD-XRF.

Test Item	Result (mg/kg)			Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1	2	3		
Lead (Pb)	ND	ND	ND	5	--
Cadmium (Cd)	ND	ND	ND	5	--
Mercury (Hg)	ND	ND	ND	5	--
Hexavalent Chromium (Cr(VI))	ND*	ND*	ND*	5	--
Total	ND	ND	ND	--	100
Comment	PASS	PASS	PASS	--	--

Test Item	Result (mg/kg)			Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	4	5	6		
Lead (Pb)	ND	ND	ND	5	--
Cadmium (Cd)	ND	ND	ND	5	--
Mercury (Hg)	ND	ND	ND	5	--
Hexavalent Chromium (Cr(VI))	ND*	ND*	ND*	5	--
Total	ND	ND	ND	--	100
Comment	PASS	PASS	PASS	--	--

Test Item	Result (mg/kg)			Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	7	8	9		
Lead (Pb)	ND	ND	ND	5	--
Cadmium (Cd)	ND	ND	ND	5	--
Mercury (Hg)	ND	ND	ND	5	--
Hexavalent Chromium (Cr(VI))	ND*	ND*	ND*	5	--
Total	ND	ND	ND	--	100
Comment	PASS	PASS	PASS	--	--

TEST(S) PERFORMED CONTINUED

Test Item	Result (mg/kg)			Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	10	11	12		
Lead (Pb)	ND	ND	ND	5	--
Cadmium (Cd)	ND	ND	ND	5	--
Mercury (Hg)	ND	ND	ND	5	--
Hexavalent Chromium (Cr(VI))	ND*	ND*	ND*	5	--
Total	ND	ND	ND	--	100
Comment	PASS	PASS	PASS	--	--

Test Item	Result (mg/kg)			Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	13	14	15		
Lead (Pb)	ND	ND	ND	5	--
Cadmium (Cd)	ND	ND	ND	5	--
Mercury (Hg)	ND	ND	ND	5	--
Hexavalent Chromium (Cr(VI))	ND*	ND*	ND*	5	--
Total	ND	ND	ND	--	100
Comment	PASS	PASS	PASS	--	--

**Total Chromium analysis by HD-XRF was not detected in submitted sample. Therefore, Hexavalent Chromium determination using UV-Visible Spectroscopy was not performed.*

Sample Description:

- | | |
|------------------------------------|--------------------------|
| 1. Tan Tsunami bag | 8. Green Tornado bag |
| 2. Black print on tan Tsunami bag | 9. Red Tornado bag |
| 3. Blue Tsunami bag | 10. Tan Tornado bag |
| 4. White print on blue Tsunami bag | 11. Blue Tornado bag |
| 5. Green Tsunami bag | 12. Black Tornado bag |
| 6. Black Tsunami bag | 13. Custom Laminated bag |
| 7. Red Tsunami bag | 14. Custom Woven bag |

Note : 1. mg/kg = milligram per kilogram
2. ND = Not Detected

Remark : The TPCB legislation has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.

We trust the results will prove useful and informative. Should you have any questions, please feel free to contact us.

End of Report

Page 9 of 9

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-a-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 a minimum of 45 days only.