



**Medical Action Industries Inc.**  
25 Heywood Road  
Arden, NC 28704  
Attn: Michael Taylor

**Test Report No: 177:003984**

**Date: 13 April 2007**

**SAMPLE(S) SUBMITTED**

**BY THE CLIENT AS:** Two (2) Samples of water soluble bags identified as Bag #1 548-A 1.3 mils and Bag #2 541-A 1.25 mils.

**DATE OF RECEIPT:** 20 March 2007

**TEST PERIOD:** 8-13 April 2007

**TEST(S) REQUESTED:** The samples were tested for Laundry Bag Hold-Out, Bursting Strength T-810, Tensile and Elongation ASTM D-882 and Solubility of Film as per clients specifications.

Testing performed on behalf of Jiangmen Proudly Eco-Friendly Products Co. Ltd.

**TEST RESULTS:** See pages 2 -3

Prior to actual testing, the samples were exposed to a controlled atmosphere maintained at 73° F - 50% RH for 24 hours

**PREPARED BY:**

**C. Kehaya**  
Laboratory Technician

**SIGNED FOR THE COMPANY BY:**

**J. Sherrier, CPLP**  
Lab Manager, Pkg. & Env.

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**PAGE 1 OF 3**

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**RESULTS OF TESTS** - Testing performed on behalf of Jiangmen Proudly Eco-Friendly Products Co. Ltd.

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**Sample:** Bag #1 Reorder # 548-A 1.3 mil

**Bursting Strength (psi)**

<u>I-O</u>	<u>O-I</u>
109.8	83.2
106.3	82.3
118.2	81.7
104.3	84.8
<u>109.2</u>	<u>91.9</u>
<b>Avg</b>	<b>97.2</b>

**Tensile Strength & Elongation**

**Width Direction**

Max Load (lbf)	% Elong.
10.0	361
7.9	300
8.1	328
10.0	362
<u>8.1</u>	<u>316</u>
<b>8.8</b>	<b>333</b>

**Length Direction**

Max Load (lbf)	% Elong.
10.0	237
11.9	283
12.8	264
10.8	251
<u>12.0</u>	<u>256</u>
<b>11.5</b>	<b>258</b>

**Solubility of Films (water temp 150°F)**

- a. First hole / break in film
- b. Film breaking free from slide
- c. Complete breakdown of film into small pieces
- d. 97% Dissolution
- e. 100% Dissolution

	<u>Time (sec.)</u>		<u>Time (sec.)</u>		<u>Time (sec.)</u>
a.	less than 1	a.	less than 1	a.	less than 1
b.	less than 1	b.	less than 1	b.	less than 1
c.	5	c.	5	c.	6
d.	15	d.	16	d.	15
e.	21	e.	23	e.	21

**Laundry bag hold out test**

16 hour exposure, 30 second unsupported hold

<u>Sample #</u>	<u>Results</u>
1	Pass
2	Pass

10-13 cm vertical snap

<u>Sample #</u>	<u>Results</u>
1	Grade A
2	Grade A

**RESULTS OF TESTS CONTINUED - Testing performed on behalf of Jiangmen Proudly Eco-Friendly Products Co. Ltd.**

Sample: Bag # 2 Re order # 541-A 1.25 Mils

**Bursting Strength (psi)**

<u>I-O</u>	<u>O-I</u>
90.4	89.9
92.2	86.7
98.3	90.7
90.1	88.8
<u>92.3</u>	<u>84.9</u>
<b>Avg</b>	<b>90.4</b>

**Tensile Strength & Elongation**

**Width Direction**

Max Load (lbf)	% Elong.
7.6	298
6.7	291
6.7	305
7.2	311
<u>7.5</u>	<u>285</u>
<b>7.1</b>	<b>298</b>

**Length Direction**

Max Load (lbf)	% Elong.
9.9	221
8.9	231
8.7	213
10.5	223
<u>11.5</u>	<u>217</u>
<b>9.9</b>	<b>221</b>

**Solubility of Films (water temp 150°F)**

- a. First hole / break in film
- b. Film breaking free from slide
- c. Complete breakdown of film into small pieces
- d. 97% Dissolution
- e. 100% Dissolution

	<u>Time (sec.)</u>		<u>Time (sec.)</u>		<u>Time (sec.)</u>
a.	less than 1	a.	less than 1	a.	less than 1
b.	less than 1	b.	less than 1	b.	less than 1
c.	3	c.	3	c.	4
d.	14	d.	13	d.	16
e.	20	e.	20	e.	20

**Laundry bag hold out test**

16 hour exposure, 30 second unsupported hold

<u>Sample #</u>	<u>Results</u>
1	Pass
2	Pass

10-13 cm vertical snap

<u>Sample #</u>	<u>Results</u>
1	Grade A
2	Grade A

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

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END OF REPORT

