

# ArcWear

3018 Eastpoint Parkway, Louisville, KY 40223. 502-333-0510, [www.ArcWear.com](http://www.ArcWear.com)

Date: June 15, 2017

Client: Flamesafe Maxisoft Ltd  
Royal Road  
Tombeau Bay, Mauritius, 21733

Sample Identified By Client As:

FlameSafe, Mfg. FML, Style Weslock, Lot no. 2136240, Lot size about 1000 mts 6.5 oz/yd<sup>2</sup> 220 g/m<sup>2</sup>  
Interlock, 100% FR Cotton, Navy, ArcWear# 1706X01

Sample received on: June 5, 2017

Test Procedure:

The tests documented in this report were conducted in accordance with the following methods:

- ASTM D3786/D3786M-13 Standard Test Method for Bursting Strength of Textile Fabrics- Diaphragm Bursting Strength Tester Method
- AATCC TM 135-2012 Dimensional Changes of Fabrics after Home Laundering in accordance with ASTM F1506-15 section 7.5
- AATCC 61-2013 Colorfastness to Laundering: Accelerated (Method 2A)
- ASTM D6413/6413M-15 Standard Test Method for Flame Resistance of Textiles (Vertical Test) completed on samples laundered 25 times in accordance with ASTM F1506-15 section 7.6.1

Testing was completed between 6/6-6/15/17 at ArcWear located in Louisville, KY. The test results are presented in pages 2-3 of this report.

Test reports are available for download from ArcWearOnline.com arc testing website. Test reports are accessible only to and protected with the company's unique password.



ASTM D3786/D3786M-13 Standard Test Method for Bursting Strength of Textile Fabrics-Diaphragm Bursting Strength Tester Method		
Specimen	Bursting Strength (kPa)	Time (s)
1	1058	23
2	901	20
3	955	21
4	958	24
5	945	20
6	892	20
7	885	24
8	1056	20
9	1007	20
10	858	19
<b>AVG</b>	<b>951</b>	<b>21</b>

AATCC 135-2012 Dimensional Changes of Fabrics After Home Laundering	
Wash Procedure:	5 Cycles in accordance with 3, IV, Aiii Permanent Press, 120 ± 5°F, Tumble Dry-Permanent Press
Load Size:	3.80lb
Specimen Size:	15x15"
Benchmark Size:	10x10"
Dimensional Change of Length Direction:	-6.2%
Dimensional Change of Width Direction:	-4.4%
Combined Average:	-5.3%

AATCC 61-2013 Colorfastness to Laundering: Accelerated- Method 2A	
Scale used for Staining:	AATCC Grayscale for Color Change & Staining
Test Fiber Used:	Multifiber Swatch
Detergent Used:	AATCC 1993 WOB
Machine Used:	Rotawash
Color Change:	5
Fiber:	Staining Grade:
Acetate	5
Cotton	5
Nylon	5
Polyester	5
Acrylic	5



ASTM D6413-15 Standard Test Method for Flame Resistance of Textiles (Vertical Test)						
Preconditioning:	25 cycles in accordance with AATCC 135 Cycle 3, IV, Aiii Permanent Press (120 ± 5°F) , Tumble Dry Permanent Press					
<b>Laundered Specimens-Length Direction</b>						
	1	2	3	4	5	Average
Afterflame Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Afterglow Time (s)	1.2	1.0	1.4	1.5	1.1	1.2
Char Length (mm)	54	56	62	65	60	59
Melting & Dripping?	No	No	No	No	No	
<b>Laundered Specimens-Width Direction</b>						
	1	2	3	4	5	Average
Afterflame Time (s)	0.0	0.0	0.0	0.0	0.0	0.0
Afterglow Time (s)	0.9	1.3	1.0	0.7	1.6	1.1
Char Length (mm)	58	52	55	52	49	53
Melting & Dripping?	No	No	No	No	No	
<b>AVG Afterflame (s):</b>	<b>0.0</b>		<b>AVG Char (mm):</b>		<b>56</b>	

Approved by:

Jill Kirby, Laboratory Manager  
ArcWear

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