



APPLIED TEXTILES LAB SERVICES
CERTIFICATE OF TESTING

For The Account Of: **Carnegie**
110 North Centre Avenue
Rockville Centre, NY 11570
Contact: Charles Griffin

DATE: January 30, 2008 CERTIFICATE (ORDER) NO.: 25214

CLIENT'S IDENTIFICATION: **TURMALIN**

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TEST RESULTS

NFPA 701 - STANDARD METHODS OF FIRE TESTS FOR FLAME RESISTANT TEXTILES AND FILMS - 2004 EDITION - TEST #1

The textile sample named above was tested and **PASSED** the **NFPA 701 Test #1 - 2004**.

Product Configuration: (x) Single Layer () Multi Layer

<u>Specimen #</u>	<u>Initial Mass(g)</u>	<u>Final Mass(g)</u>	<u>% Weight Loss</u>	<u>Flaming Drip</u> <u>Seconds</u>	<u>Afterflame</u> <u>Seconds</u>
1	5.1	4.5	12%	0	0
2	5.0	4.6	9%	0	0
3	4.8	4.4	10%	0	0
4	4.9	3.5	28%	0	0
5	4.9	4.1	16%	0	0
6	4.9	4.7	5%	0	0
7	4.9	4.6	5%	0	0
8	4.9	3.9	22%	0	0
9	4.9	4.0	18%	0	0
10	4.9	4.0	18%	0	0
Average	4.9	4.2	14%	0.0	0.0

Afterflame is required to be recorded; however, it is not factored into the Failure Criteria

Approximate weight (oz./sq. yd): 2.419

SD = Standard Deviation 3 SD = Mean + 3 SD g/m /(divided) x .835 = oz/yd

PERFORMANCE CRITERIA:

- Where fragments or residues of specimens that fall to the floor of the test chamber continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens, the material shall be recorded as failing. (Flaming Drip)
- Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing.
- Individual specimens will be listed as a failure if it exceeds mean + 3 SD
- Where the specimens do not demonstrate performance in accordance with either of the conditions indicated above, the material shall be recorded as passing this test and shall be designated as flame resistant.

CONCLUSION: Based on the above Results and Performance Criteria, the item tested:

 X Passes Fails Testing of 10 additional specimens is required

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by the standards listed above.

Jennifer Friend - Lab Manager
Applied Textiles Lab Services

Chavon McDaniel
Lab Technician

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