

**DIVERSIFIED**  
TESTING LABORATORIES, INC.  
WORLDWIDE SERVICE

"We Test Per Your Request"

336 WEST FRONT STREET  
P.O. BOX 4004  
BURLINGTON, NORTH CAROLINA 27215  
PHONE (336) 227-7710 • FAX (336) 227-1175  
www.diversifiedtestinglabs.com

January 14, 2022

Mr. Logan Jones  
RICHLOOM FABRICS GROUP  
100 Bailey Plant Road  
Clinton, SC 29325

Reference: Laboratory Test Report  
Lab Identification No. 48706  
Invoice No. 79981

Dear Mr. Jones:

One (1) fabric sample, identified as **EXPANSE – Abyss**, was received and tested in accordance with the National Fire Protection Association No. 701, "Standard Methods of Fire Tests for Flame Propagation of Textiles and Films, 2019 Edition, (Test 1)". The results are as follows:

<u>Specimen Number</u>	<u>Test Results</u> <u>Residual Flame</u> (seconds)	<u>Weight Loss</u> (percent)
1	0.0	13.95
2	0.0	8.58
3	0.0	18.19
4	0.0	26.01
5	0.0	19.57
6	0.0	10.82
7	0.0	13.53
8	0.0	19.69
9	0.0	21.38
<u>10</u>	<u>0.0</u>	<u>10.00</u>
<b>AVG</b>	<b>0.0</b>	<b>16.17</b>

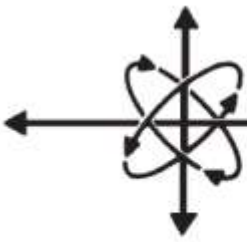
The sample submitted **meets** the minimum requirements of the above standard. The average percent weight loss cannot exceed 40% and the weight loss of individual specimens cannot exceed mean value plus three standard deviations. The average residual flame cannot exceed 2.0 seconds.

Sincerely,

Brian S. Dement

BSD/mr





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March 9, 2022

Mr. Logan Jones  
RICHLOOM FABRICS GROUP  
P.O. Box 1157  
Clinton, SC 29325

Reference: Laboratory Test Report  
Lab Identification No. 49354  
Invoice No. 80641

Dear Mr. Jones:

One (1) fabric sample, identified as **Expanse Abyss Lot: 587668**, was received and tested in accordance with **IMO FTPC-2010; International Code for Application of Fire Test Procedures Resolution MSC.307 (88) Annex 1- Fire Test Procedures, Part 7- Test for Vertically Supported Textiles and Films**, “The test results relate to the behavior of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazards of the product in use.”

The sample submitted was tested in accordance with Section 6; Test Procedure; sub-sections 6.1-6.4. The results are as follows:

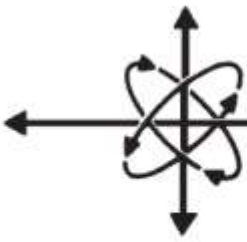
**Flame Determination – Warp**

Surface Face	Sustained Flaming (Y/N)	Char Length (mm)	Edge	Sustained Flaming (Y/N)	Char Length (mm)
5 sec.	N	40	5 sec.	N	73
15 sec.	N	43	15 sec.	N	105*

**Flame Determination – Fill**

Surface Face	Sustained Flaming (Y/N)	Char Length (mm)	Edge	Sustained Flaming (Y/N)	Char Length (mm)
5 sec.	N	31	5 sec.	N	81
15 sec.	N	41	15 sec.	N	88*

**\*DENOTES WORST TESTING CONDITION**



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**Test Results**

	Specimen	Flame Reached Edge (Y/N)	Ignition of Cotton/Wool (Y/N)	Surface Flash (mm)	Afterflame (sec)	Char Length (mm)
<b>Warp</b>	1	N	N	0	0	126
	2	N	N	0	0	112
<b>5 Sec. Edge</b>	3	N	N	0	0	121
	4	N	N	0	0	99
	5	N	N	0	0	130
	Average				0	118

	Specimen	Flame Reached Edge (Y/N)	Ignition of Cotton/Wool (Y/N)	Surface Flash (mm)	Afterflame (sec)	Char Length (mm)
<b>Fill</b>	1	N	N	0	0	89
	2	N	N	0	0	100
<b>15 Sec. Edge</b>	3	N	N	0	0	95
	4	N	N	0	0	108
	5	N	N	0	0	86
	Average				0	96

The sample submitted **meets** the minimum requirements of the above standard. The afterflame time cannot exceed 5 seconds for any specimen. There can be no flame propagation to the edges for any specimen and no ignition of the cotton wool. Average char length cannot exceed 150mm and there can be no occurrence of a surface flash more than 100mm from the point of ignition.

Sincerely,

Brian S. Dement

BSD/mr

