

DIVERSIFIED TESTING LABORATORIES, INC.

WORLDWIDE SERVICE

"We Test Per Your Request"—

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January 27, 2023

Mr. Nathan Wintermute MERMET 5970 N. Main Street Cowpens, SC 29330

Reference: Laboratory Test Report

Lab Identification No. 53565

Invoice No. 84866

Dear Mr. Wintermute:

One (1) sample, identified as **E Screen 0.5%**, 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:

Test Results

Specimen Number	Residual Flame (seconds)	Weight Loss (percent)
1	0.0	5.82
2	0.0	7.57
3	0.0	5.89
4	0.0	5.47
5	0.0	4.49
6	0.0	6.70
7	0.0	4.69
8	0.0	5.98
9	0.0	5.03
<u>10</u>	<u>0.0</u>	<u>7.23</u>
AVG	0.0	5.89

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







Date of Issue: 8/21/2024 Report Number: 24-002030

Revision Number:1

Date Order Received: 08/09/2024

For the Account of: Mermet

5970 N Main St Cowpens SC 29330

Client's Identification:	E SCREEN 1%

CERTIFICATE OF TESTING

TEST PERFORMED: NFPA 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films 2019 – Test #1

TEST RESULTS

Specimen	Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)
1	27.9	27.3	2	0.0	0.0
2	28.1	25.4	10	0.0	0.0
3	28.2	25.7	9	0.0	0.0
4	27.7	25.4	8	0.0	0.0
5	28.4	27.6	3	0.0	0.0
6	28.6	27.9	2	0.0	0.0
7	27.6	26.9	3	0.0	0.0
8	29.6	28.7	3	0.0	0.0
9	28.0	27.2	3	0.0	0.0
10	27.9	26.7	4	0.0	0.0
Average	28.2	26.9	5	0.0	0.0

Approximate weight	(oz./sq. yd): 13.9	Standard Deviation: 3.1	Average + 3 SD: 14.3
Product Configuration	on: 🗵 Single Layer	☐ Multi Layer	
Conditioning: ntended End-use (if	Oven at 220°F for known & other than drapery): Other	r minimum 30 minutes ner and / or Unknown	☑ 70 ±2°F & 65 ±2%RH for minimum 24 hours
 Where frag seconds pe Where the Individual s Where the be recorde 	If to be recorded; however, it is not a ments or residues of specimens the preserved from the sample of 10 spaces average weight loss of the 10 specimens will be listed as a failure	pecimens, the material shall be reco bimens in a sample is greater than 4 if it exceeds mean + 3 SD formance in accordance with either designated as flame resistant.	er continue to burn for more than an average of 2
_	⊠ Complies □ Does Not Comply		
CERTIFICATION I ce		tained after testing specimen in acc	cordance with the procedures and equipment
Berta Stive	ı		
Authorized Signature			Date Order Completed: 08/21/2024

553 76th Street, Byron Center, MI 49315

P: 616-559-6123 E: testlab@applied-lab.com





Date of Issue: 8/20/2024 Report Number: 24-002031

Revision Number:1

Date Order Received: 08/09/2024

For the Account of: Mermet

5970 N Main St Cowpens SC 29330

F SCREEN 3%			
L CONLLIN 070			
	E SCREEN 3%	E SCREEN 3%	E SCREEN 3%

CERTIFICATE OF TESTING

TEST PERFORMED: NFPA 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films 2019 – Test #1

TEST RESULTS

Specimen	Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)
1	25.6	24.6	4	0.0	0.0
2	25.4	23.1	9	0.0	0.0
3	25.5	23.9	6	0.0	0.0
4	25.6	24.7	4	0.0	0.0
5	25.9	23.9	8	0.0	0.0
6	25.8	23.0	11	0.0	0.0
7	26.2	24.6	6	0.0	0.0
8	26.3	24.0	9	0.0	0.0
9	26.0	23.1	11	0.0	0.0
10	26.0	24.9	4	0.0	0.0
Average	25.8	24.0	7	0.0	0.0

Approximate weig	ght (oz./sq. yd): 12.7	Standard Deviation: 2.8	Average + 3 SD: 15.4
Product Configur	_ ,	☐ Multi Layer or minimum 30 minutes	☑ 70 ±2°F & 65 ±2%RH for minimum 24 hours
ntended End-use	e (if known & other than drapery): O	ther and / or Unknown	
 Where f seconds Where t Individu Where t 	ragments or residues of specimens t s per specimen for the sample of 10 s he average weight loss of the 10 spe al specimens will be listed as a failur	specimens, the material shall be reco ecimens in a sample is greater than 4 re if it exceeds mean + 3 SD erformance in accordance with either	er continue to burn for more than an average of 2
CONCLUSION	Based on the above Results and A ☑ Complies ☐ Does Not Comply	Acceptance Criteria, the item tested:	
	andard stated above.	btained after testing specimen in acc	cordance with the procedures and equipment
Authorized Signature	9		Date Order Completed: 08/20/2024

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Date of Issue: 8/20/2024 Report Number: 24-002032

Date Order Received: 08/09/2024

Revision Number:1

For the Account of: Mermet

5970 N Main St Cowpens SC 29330

Client's Identification:	E SCREEN 5%		

CERTIFICATE OF TESTING

TEST PERFORMED: NFPA 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films 2019 – Test #1

TEST RESULTS

Specimen	Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)
1	23.9	22.2	7	0.0	0.0
2	24.2	22.3	8	0.0	0.0
3	24.2	21.8	10	0.0	0.0
4	24.1	23.5	2	0.0	0.0
5	23.9	22.1	8	0.0	0.0
6	23.7	22.0	7	0.0	0.0
7	24.0	20.9	13	0.0	0.0
8	24.0	21.1	12	0.0	0.0
9	23.5	21.2	10	0.0	0.0
10	23.4	23.0	2	0.0	0.0
Average	23.9	22.0	8	0.0	0.0

Approximate weight (oz./sq. yd): 11.8 Product Configuration: ⊠ Single Layer Conditioning: □ Oven at 220°F for r Intended End-use (if known & other than drapery): Othe		Standard Deviation: 3.7	Average + 3 SD : 19.1
		☐ Multi Layer r minimum 30 minutes ner and / or Unknown	☑ 70 ±2°F & 65 ±2%RH for minimum 24 hours
 Where fragments or seconds per specim Where the average Individual specimen Where the specimen be recorded as pass CONCLUSION Based on \overline{\text{CONCLUSION}}	residues of specimens the nen for the sample of 10 specimens the 10 specimens weight loss of the 10 specimens will be listed as a failure ns do not demonstrate persing this test and shall be the above Results and Advisor	pecimens, the material shall be rec cimens in a sample is greater than e if it exceeds mean + 3 SD	per continue to burn for more than an average of 2 corded as failing. (Flaming Drip) 40 percent, the material shall be recorded as failing. er of the conditions indicated above, the material shall
Specified by the standard state		tained after testing specimen in ac	cordance with the procedures and equipment
Authorized Signature			Date Order Completed: 08/20/2024

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Date of Issue: 8/21/2024 Report Number: 24-002033

Revision Number:1

Date Order Received: 08/09/2024

For the Account of: Mermet

5970 N Main St Cowpens SC 29330

Client's Identification:	E SCREEN 10%		

CERTIFICATE OF TESTING

TEST PERFORMED: NFPA 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films 2019 – Test #1

TEST RESULTS

Specimen	Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)
1	22.9	19.8	14	0.0	0.0
2	22.9	18.8	18	0.0	0.0
3	23.1	22.1	4	0.0	0.0
4	23.1	21.0	9	0.0	0.0
5	23.1	21.1	9	0.0	0.0
6	23.1	21.5	7	0.0	0.0
7	22.9	21.0	8	0.0	0.0
8	22.9	20.9	9	0.0	0.0
9	23.0	21.0	9	0.0	0.0
10	23.0	20.9	9	0.0	0.0
Average	23.0	20.8	10	0.0	0.0

Approximate weight (oz./sq. yd): 11.3		Standard Deviation: 3.8	Average + 3 SD: 21.4
Product Configuration	n: 🗵 Single Layer	☐ Multi Layer	
		r minimum 30 minutes	☑ 70 ±2°F & 65 ±2%RH for minimum 24 hours
ntended End-use (if	known & other than drapery): Dra	apery	
ACCEPTANCE CRITE	ERIA		
Where frag seconds pe Where the Individual s Where the be recorded CONCLUSION Where the be recorded	ments or residues of specimens the specimen for the sample of 10 specimens will be listed as a failure specimens will be listed as a failure specimens do not demonstrate per d as passing this test and shall be ased on the above Results and Accomplies	pecimens, the material shall be reco dimens in a sample is greater than a if it exceeds mean + 3 SD formance in accordance with either	er continue to burn for more than an average of 2
	•	tained after testing specimen in acc	cordance with the procedures and equipment
Berta Stive	b		
Authorized Signature			Date Order Completed: 08/21/2024

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