applied lab



Date of Issue: 4/12/2023 Report Number: 23-001070 Revision Number:3 Date Order Received: 03/30/2023

For the Account of:

Mermet 5970 N Main St Cowpens SC 29330

Client's Identification:

TEST RESULTS

E Screen KOOLBLACK 0.5%

CERTIFICATE OF TESTING

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

Specimen	Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)	
1	31.6	30.2	4	0.0	0.0	
2	30.6	29.0	5	0.0	0.0	
3	30.9	29.1	6	0.0	0.0	
4	31.0	29.3	5	0.0	0.0	
5	30.5	28.8	6	0.0	0.0	
6	31.0	29.4	5	0.0	0.0	
7	30.6	28.8	6	0.0	0.0	
8	30.7	29.2	5	0.0	0.0	
9	30.7	29.3	5	0.0	0.0	
10	30.8	29.1	6	0.0	0.0	
Average	30.8	29.2	5	0.0	0.0	
Approximate weight (oz./sq. yd): 15.2 Standard Deviation: 0.7		n: 0.7	Average + 3 SD: 7.1			
Product Configuration:	⊠ Single Layer	🛛 Multi Layer				
Conditioning:	☑ Oven at 220°F for minimum 30 minutes			\Box 70 ±2°F & 65 ±2%RH for minimum 24 hours		
Intended End-use (if known & other than drapery): Drapery						

ACCEPTANCE CRITERIA

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

- 1. 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)
- 2. Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing.
- 3. Individual specimens will be listed as a failure if it exceeds mean + 3 SD
- 4. 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 Acceptance Criteria, the item tested:

☑ Complies

Does Not Comply

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

berta Stiver

Authorized Signature

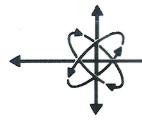
Date Order Completed: 04/03/2023

553 76th Street, Byron Center, MI 49315

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

Page 1 of 1

This laboratory test is not intended to reflect fabric performance under actual conditions. The certification procedure merely measures the performance of samples as received under the predetermined and specific test conditions prescribed by the standard specified. This certificate applies only to the standards or processing identified and to the random sample(s) tested. The test results are representative of the qualities of the piece or lot only to the standards the sample tested is representative of the piece or lot.



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

April 25, 2017

Ms. Ali Fisher MERMET 5970 N. Main Street Cowpens, SC 29330

Reference: Laboratory Test Report Lab Identification No. 24869 Invoice No. 56012

Dear Ms. Fisher:

One (1) fabric sample, identified as **E SCREEN KOOLBLACK 1%**, 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, 2015 Edition, (Test 1, Small Scale)". The results are as follows:

	Test Results	
Specimen Number	Residual Flame (seconds)	<u>Weight Loss</u> (percent)
1	0.0	7.06
2	0.0	7.33
3	0.0	11.36
4	0.0	10.54
5	0.0	11.41
6	0.0	10.20
7	0.0	8.31
8	0.0	8.44
9	0.0	7.22
<u>10</u>	<u>0.0</u>	9.77
AVG	0.0	9.16

The fabric 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.

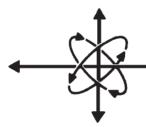
If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

Brian S. Dement

BSD/mr







WORLDWIDE SERVICE

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

March 29, 2019

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

Reference: Laboratory Test Report Lab Identification No. 35163 Invoice No. 66375

Dear Mr. Wintermute:

One (1) sample, identified as **E SCREEN™ 3% WITH KOOLBLACK® TECHNOLOGY**, 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>Test Results</u>	
Specimen Number	<u>Residual Flame</u> (seconds)	Weight Loss (percent)
1	0.0	1.49
2	0.0	0.73
3	0.0	1.30
4	0.0	0.21
5	0.0	3.21
6	0.0	0.68
7	0.0	2.34
8	0.0	0.24
9	0.0	3.05
<u>10</u>	<u>0.0</u>	<u>0.32</u>
AVG	0.0	1.36

The fabric 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.

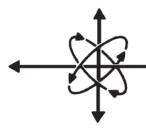
If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

Brian S. Dement

BSD/mr







WORLDWIDE SERVICE

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

March 29, 2019

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

Reference: Laboratory Test Report Lab Identification No. 35163 Invoice No. 66375

Dear Mr. Wintermute:

One (1) sample, identified as **E SCREEN™ 5% WITH KOOLBLACK® TECHNOLOGY**, 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>Test Results</u>	
Specimen Number	Residual Flame (seconds)	<u>Weight Loss</u> (percent)
1	0.0	0.67
2	0.0	1.04
3	0.0	1.63
4	0.0	0.47
5	0.0	1.79
6	0.0	1.05
7	0.0	1.93
8	0.0	1.06
9	0.0	0.99
<u>10</u>	<u>0.0</u>	<u>0.51</u>
AVG	0.0	1.11

The fabric 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.

If there are any questions or when we can be of further assistance, please let us know.

Sincerely,

Brian S. Dement

BSD/mr



applied lab



Date of Issue: 4/12/2023 Report Number: 23-001071 Revision Number:3 Date Order Received: 03/30/2023

For the Account of:

Mermet 5970 N Main St Cowpens SC 29330

Client's Identification:

E Screen KOOLBLACK 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						
Specim	en Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)	
1	22.4	21.4	4	0.0	0.0	
2	22.3	21.5	4	0.0	0.0	
3	22.2	21.6	3	0.0	0.0	
4	22.4	22.1	1	0.0	0.0	
5	22.2	21.4	4	0.0	0.0	
6	22.3	21.6	3	0.0	0.0	
7	22.3	21.8	2	0.0	0.0	
8	22.5	21.5	4	0.0	0.0	
9	22.4	21.6	4	0.0	0.0	
10	22.5	21.3	5	0.0	0.0	
Average	e 22.4	21.6	3	0.0	0.0	
Approximate weight (oz./sq. yd): 11.0	Standard Deviatior	n: 1.2	Average + 3 SI	D : 6.6	
Product Configuration:	⊠ Single Layer	🗆 Multi Layer				
Conditioning:	⊠ Oven at 220°F for minimum 30 minutes			□ 70 ±2°F & 65 ±2%RH for minimum 24 hours		
Intended End-use (if known & other than draneny). Drapeny						

Intended End-use (if known & other than drapery): Drapery

ACCEPTANCE CRITERIA

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

- 1. 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)
- 2. Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing.
- 3. Individual specimens will be listed as a failure if it exceeds mean + 3 SD
- 4. 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 Acceptance Criteria, the item tested:

⊠ Complies

Does Not Comply

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

Berta Stiven

Authorized Signature

Date Order Completed: 04/03/2023

553 76th Street, Byron Center, MI 49315

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

This laboratory test is not intended to reflect fabric performance under actual conditions. The certification procedure merely measures the performance of samples as received under the predetermined and specific test conditions prescribed by the standard specified. This certificate applies only to the standards or processing identified and to the random sample(s) tested. The test results are representative of the qualities of the piece or lot only to the standards the sample tested is representative of the piece or lot.

Our reports and letters are for the exclusive use of the customer to whom they are addressed and they and the corporation named on the reverse are not to be used under any circumstances without prior written approval. Samples will not be retained, unless specified by the customer. Retained samples will be kept a maximum time of one year unless a specific retention period is necessary.