

3169 Wend was tested and met the following flammability requirements:

ASTM E 84 Unadhered Class A
CA TB 117-2013

Tested For: Colleen Billing
DesignTex
200 Hudson St, 9th Floor
New York, NY 10014
USA

Phone: (212) 886-8210
Fax:
Mobile:
PO#:
Email: cbilling@designtex.com

Received: 12/22/2020
Completed: 12/23/2020
Code: Q
Test Report: 3-41635-0

Key Test: ASTM E84/ACT

765

Client's Identification:

Style: 3169 Wend. Fiber Content: 100% Polyester (Postconsumer Recycled) Finish: Silicone. Fabric Weight: 21.5 oz/lyd Product End Use: Uph/Panel

Test Category: Tunnel Test Specifier: ACT LE 2019; V 12/19 PC: ME d/SM BB/mg

TEST PERFORMED: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials [LE 2018a; V 9/18] --

As cited by the Association of Contract Textiles (ACT) Voluntary Performance Guidelines (March 2019)

APPROXIMATE THICKNESS OF SPECIMEN (as measured by SGS North America): .029"

SPECIMEN WEIGHT (to include substrate when applicable):

Prior to Conditioning: 6.9 lbs.

Stabilized Weight (taken twice within 24 hours): 6.9 lbs.

PRODUCT CATEGORY:

- ☒ Textile Type Product
- ☐ Vinyl Type Product
- ☐ Other than Textile Type or Vinyl Type Product: _____

BRIEF DESCRIPTION OF TEST: This test method is used to determine the relative burning behavior of a material under defined test conditions. The test is performed in a 25 ft. long tunnel/duct-like apparatus and is often referred to as the "tunnel test". The test contemplates a calibration where Red Oak burns to the 24 ft. mark in 5.5 minutes $\pm$ 15 seconds. During the actual test, a 24 ft. long x 23" wide specimen rests horizontally in a ceiling configuration inside the test chamber facing downward and toward two upward oriented burners. A furnace lid that rests in a water trough seals the chamber tight. A cement board placed on the backside of each specimen assembly protects the furnace lid during the test. The near face of the specimen is subjected to a 4.5 ft. flame insult of approximately 88 kW for ten minutes. The time and distance of the spread of flame along the length of the specimen and the smoke developed as read by the photometric system are all recorded. The Flame Spread and Smoke Developed are reported as an Index.

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SPECIMEN MOUNTING:

- ☐ Self-supporting: The test specimen was rigid enough to be self-supporting when placed into test position. No additional support was required.
- ☐ Adhered to IRC: The test specimen was bonded to ¼" Inorganic Reinforced Cement (IRC) boards.
- ☐ Adhered to Gypsum: The test specimen was adhered to 5/8" thick Type X gypsum board.
- ☒ Unadhered: The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and ¼" rods.
- ☐ Other: _____

SPECIMEN LENGTH: The 24 ft. length was comprised of:

- ☐ Continuous unbroken 24 ft. length
- ☒ Sections:
 - ☐ Three 8 ft. sections butted end to end
 - ☐ Three 8 ft. sections positively joined
 - ☒ Other: 2 12 ft. sections butted end to end

ADHESIVE (applied by SGS North America): ☒ No
☐ Yes (specify): _____

OBSERVATIONS:

- ☐ No unusual observations
- ☐ Delamination
- ☐ Sagging
- ☐ Shrinkage
- ☐ Fallout (specimen displacement from ceiling mount)
- ☒ Other: Moderate flaming drip burning on tunnel floor

REMARKS: ☒ None
☐ Other: _____

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RESULTS: Flame Spread Index: 10
 Smoke Developed: 90

ROUNDING: Flame Spread Index value has been rounded to the nearest multiple of 5.
 Smoke Developed value has been rounded to:

Raw Data	Rounded
Less than 200	Nearest multiple of 5
200 or more	Nearest multiple of 50

ACCEPTANCE CRITERIA (as cited by ACT):

	Flame Spread Index	Smoke Developed
Class A	0 - 25	450 or less

NOTE: Class A is also known as Class 1 and may be so specified in some Codes.

CONCLUSION: Based on the reported Results and cited Acceptance Criteria, the item tested:

☒ Complies ☐ Does not comply

DATA SUMMARY:

Time to Ignition (minutes:seconds): 00:14
 Maximum Flame Spread "Distance" (feet): 2.6
 Maximum Flame Spread "Time" (seconds): 58

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CODE CLASSIFICATION: Based on the reported Results and cited Code Classification System, the item tested is assigned a:

- ☒ Class I or A rating
- ☐ Class II or B rating
- ☐ Class III or C rating
- ☐ Fails to achieve a minimum classification thereby rendering the product unsuitable in terms of code requirement.
- ☐ Based on product performance*, ASTM E84 is not a suitable test method for the material.

* Severe melt, drip, delamination or other behavior that destroys the continuity of the flame front such that a valid flame spread is unobtainable (See "Remarks" on Page 2 of 4.)

CODE CLASSIFICATION SYSTEM:

	Flame Spread Index	Smoke Developed
Class I or A:	0 - 25	450 or less
Class II or B:	26 - 75	450 or less
Class III or C:	76 - 200	450 or less

LIMITATIONS OF THE ASTM E84 CLASSIFICATION SCHEME: Most building codes will accept the ASTM E84 classifications when the interior finish product is used in a sprinklered area. Certain local authorities such as NYC have more stringent requirements, i.e. Smoke Developed ranges from a maximum 25 to 100.

If the interior finish product is a textile or vinyl wall covering used in a non-sprinklered area, the NFPA 265 room corner fire test applies.

Certain products which give off excessive heat such as but not limited to cellular plastics, cellular foam (either with or without coverings as applicable), polypropylene, and high density polyethylene should be tested by NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth. In SGS North America's opinion, the codes require NFPA 286 for such products, even in sprinklered areas.

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

AUTHORIZED SIGNATURE
 SGS NORTH AMERICA
 /jab

Test Engineer: Joseph Philippas

Enclosure: Graphs

Bobby Brown

DEC 29 2020



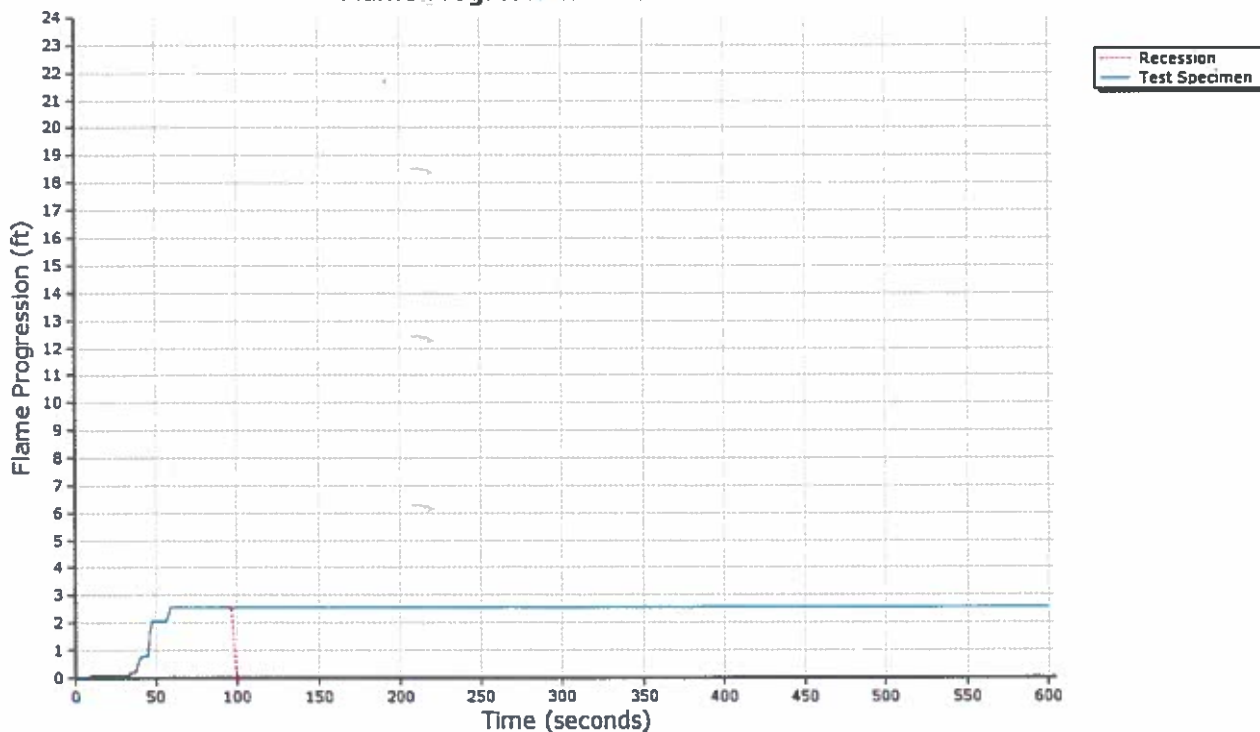
GOVMARK

Program: ASTM E84 (Version 2.10)

Test Method : ASTM E84
Test Report # : 3-41635-0-Q
Date : 12/23/2020
Client : Designtex
Operator : Joseph Philippas
Details of Preparation : The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 24ft specimen was comprised of two 12' sections butted end to end.
Observations : moderate flaming drip burning on tunnel floor.

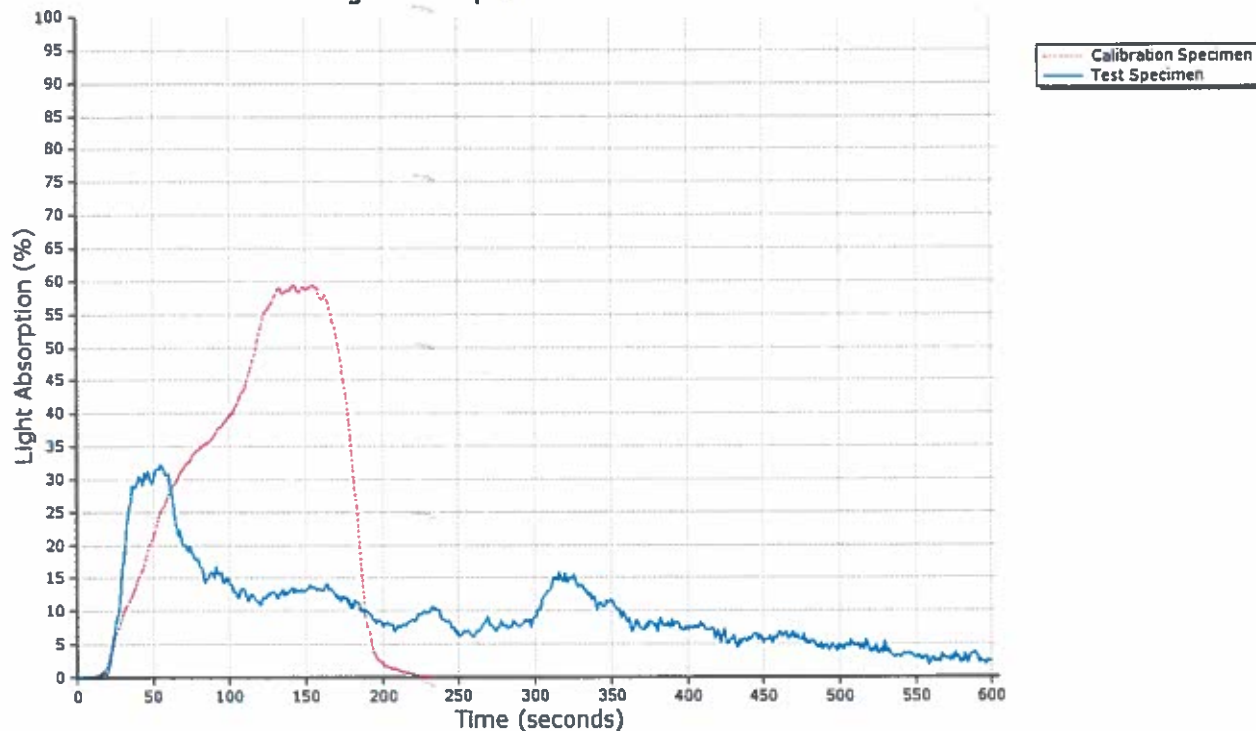
Area Under Flame Curve (ft min) : 23.69
Raw Flame Spread Index (ft min) : 12.20
Rounded Flame Spread Index (ft min) : 10
Ignition Time : 00:14
Area Under Smoke Curve (%A min) : 95.44
Raw Smoke-Developed Index : 88.75
Rounded Smoke-Developed Index : 90
Total Gas Flow(L) : 1465.4
Total Gas Flow(ft³) : 51.7
Maximum Flame Front Achieved(ft) : 2.6 (@58s)

Flame Progression vs. Time



Test Method : ASTM E84
Test Report # : 3-41635-0-Q

Light Absorption vs. Time



ISO/IEC 17025 Third Party Test Report

DATE: April 2, 2021

FILE: DESTEX.A031821F

CLIENT: Design Tex Inc.
200 Varick Street, 8th Floor
New York, NY 10014

ATTN: Teesha Prezeau

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Name: Wend 3169

Finish: Silicone (Supreen), Backing: Silicone (Supreen)

100% Polyester (Postconsumer Recycled))

Color Grey

TEST PROCEDURES:

TEST RESULTS:

CALIFORNIA TECHNICAL BULLETIN 117-2013

SECTION 1 COVER FABRIC TEST

CHAR LENGTH (mm)

Specimen #1: 19
Specimen #2: 24
Specimen #3: 22

- a) The mock-up test specimen continues to smolder after the 45-minute test duration: **NO**
- b) A char develops more than 1.8 inches (45 mm) in any direction from the cigarette on the cover fabric measured from its nearest point: **NO**
- c) The mock-up test specimen transitions to open flaming: **NO**

RESULTS: Pass

A material is considered to pass or fail based on the following criteria:

1. A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:
 - a) The mock-up test specimen continues to smolder after the 45-minute test duration.
 - b) A char develops more than 1.8 inches (45 mm) in any direction from the cigarette on the cover fabric measured from its nearest point.
 - c) The mock-up test specimen transitions to open flaming.
2. The cover fabric passes the test if three initial mock-up specimens pass the test, i.e., the cigarettes burn their full length and the mock-ups are no longer smoldering.
3. If more than one initial specimen fails, the cover fabric fails the test.
4. If any one of the three initial specimens fails, repeat the test on an additional three specimens.
5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the three additional specimens fails, the cover fabric fails the test.