Flammability Certificate
3747 Reppweave

DESIGNTEX

3747 Reppweave was tested and met the following flammability requirements:

ASTM E 84 Unadhered Class A
CA TB 117-2013
UL Listed

800.221.1540
designtex.com
Updated 06.05.23

TEXTILE TESTING
CERTIFIED BEAUTY.

Report Number: 18-001402
Revision Number:1
Date Order Received: 03/08/2018

For the Account of: Designtex
357 County Ave
Secaucus, NJ 07094

Client's Identification: Reppweave

Stain Repellent, Acrylic Backin

CERTIFICATE OF TESTING

TEST PERFORMED: Standard Method of Test for Surface Burning Characteristics of Building Materials ASTM E 84-16
Unadhered

TEST RESULTS

	Flame Spread Index	Smoke Developed Index
Reppweave	15	65
Reinforced Cement Board	0	0
Red Oak Flooring	100	100

Specimen Data

Time to Ignition	00.07	(min)
Maximum Flame Spread	03.24	(ft)
Time to Maximum Flame Spread	00.33	(min)

ACCEPTANCE CRITERIA

Class	Flame Spread Index	Smoke Development Rating
1 or A	0 - 25	0 - 450 maximum
2 or B	26 - 75	0 - 450 maximum
3 or C	76 - 200	0 - 450 maximum

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

- ☒ Class 1 or A
- ☐ Class 2 or B
- ☐ Class 3 or C
- ☐ Unrated

DISCUSSION

This test is certified for ASTM E84 by the Southern Building Code Congress International (SBCCI) as a testing laboratory for Fire and Materials testing, Evaluation Report Number TL-9606 (Commercial Testing), and by the United States Department of Commerce, National Institute of Standards and Technology (NIST), through the National Voluntary Laboratory Accreditation Program (NVLAP) for compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:2005, and relevant requirements of ISO 9002:1994.

This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from daily-constituted authorities. The test results presented in this report apply only to the samples tested and are not necessarily indicative of apparent identical or similar materials. The client provided sample selection and identification. A sampling plan, if described in the referenced test procedure, was not necessarily followed. This report shall not be used under any circumstance in advertising to the general public.

INTRODUCTION

This report is a presentation of results of a surface flammability test on a material submitted by the client identified above.

The test was conducted in accordance with the most recent version of the ASTM International fire-test-response standard E84 *Surface Burning Characteristics of Building Materials,* sometimes referred to as the Steiner tunnel test. ASTM E84 is an American National Standard (ANSI) and has been approved for use by agencies of the Department of Defense. The ASTM E84 test method is the technical equivalent of UL No. 723. The test is applicable to exposed interior surfaces such as walls and ceilings. The test is conducted with the specimen in the ceiling position with the surface to be evaluated face down toward the ignition source. Thus, specimens shall either be self-supporting by its own structural quality, held in place by added supports along the test surface, or secured from the back side.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions.

Purpose

The purpose of the test is to provide only the comparative measurements of surface flame spread and smoke development of materials with that of select grade red oak and reinforced cement board under specific fire exposure conditions. The test exposes a nominal 24-foot long by 20-inch wide test specimen to a controlled airflow and flaming fire adjusted to spread the flame along the entire length of a red oak specimen in 5½ minutes. During the 10-minute test duration, flamespread over the specimen surface and density of the resulting smoke are measured and recorded. Test results are calculated relative to red oak, which has an arbitrary rating of 100, and reinforced cement board, Grade II, which has a rating of 0.

The test results are expressed as Flame Spread Index and Smoke Developed Index. The Flame Spread Index is defined in ASTM E 176 as a number or classification indicating a comparative measure derived from observations made during the progress of the boundary of a zone of flame under defined test conditions. The Smoke Developed Index, a term specific to ASTM E-84, is defined as a number or classification indicating a comparative measure derived from smoke obscuration data collected during the test for surface burning characteristics. There is not necessarily a relationship between the two measurements.

The method does not provide for measurement of heat transmission through the surface tested, the effect of aggravated flame spread behavior of an assembly resulting from the proximity of combustible walls and ceilings, or classifying a material as noncombustible solely by means of a Flame Spread Index.

The zero reference and other parameters critical to furnace operation are verified on the day of the test by conducting a 10-minute test using 1 /4-inch reinforced cement board, Grade II. Periodic tests using NOFMA certified 23/32-inch select grade red oak flooring provide data for the 100 reference.

Test Sample

The test sample, selected by the client, is identified in the header section of this report. The material was conditioned to equilibrium in an atmosphere with the temperature maintained at 71 ±2°F and the relative humidity at 50 ±5 percent. For testing, two lengths of the material, each measuring 2 feet wide by 12 feet in length, were free laid over a 2-inch hexagonal wire mesh supported by ¼ inch diameter steel rods spanning the ledges of the tunnel furnace at 24-inch intervals. This method of auxiliary sample support is described in Appendix X1 of the E84 standard, Guide to Mounting Methods, Sections X1.1.2.2 (a) and X1.1.2.3.

Test Results

The test results, calculated on the basis of observed flame propagation and the integrated area under the recorded smoke density curve, are presented above. The Flame Spread Index obtained in E-84 is rounded to the nearest number divisible by five. Smoke Developed Indices are rounded to the nearest number divisible by five unless the Index is greater than 200. In that case, the Smoke Developed Index is rounded to the nearest 50 points. The flame spread and smoke development data are presented graphically in the computer printout at the end of this report.

Classification

The Flame Spread Index and Smoke Developed Index values obtained by ASTM E84 are frequently used by code officials and regulatory agencies in the acceptance of interior finish materials for various applications. The most widely accepted classification system is described in the National Fire Protection Association publication NFPA 101 *Life Safety Code*, where the Standard Classification System is as cited in the Acceptance Criteria section of this report

Class A, B and C correspond to Type I, II, and III respectively in other codes such as SBCCI, BOCA, and ICBO. They do not prelude a material being otherwise classified by the authority of jurisdiction.

The description of the test procedure and specimen evaluated, as well as the observations and results obtained, contained herein are true and accurate within the limits of sound engineering practice. These test results were obtained from an outside source. A copy of the original document is kept on file at Applied Textiles.

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. These test results were obtained from an outside source

Authorized Signature

Date Order Completed: 04/06/2018

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Received:07/22/2015	Completed:07/23/2015	Letter: N	MB	P.O.#:	Test Report #:	3-08986-0-
Client's Identification	Style: 3747 Reppweave. End Use of fabric: Upholstery.					

Tested For: **Teesha Prezeau**
The Designtex Group
357 County Avenue
Secaucus, NJ 07094

Key Test: CA TB 117-2013 (Section 1-Cover Fabric) /ACT 235
Tel: 1-(201)-917-7738 **Ext:**
Fax: 1-(201)-917-7764

CA TB 117 LE: 2013; V 02/15 PC: 24 hrs: 21°± 3°C; less than 55% RH SM/mg

TEST PERFORMED: As cited by the ACT Voluntary Performance Guidelines (August 2014) --

California Technical Bulletin 117-2013 - Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture (June 2013 Version)

Section 1, Cover Fabric Test (Upholstery cover material is the outermost layer of fabric or related material used to enclose the main support system or upholstery materials, or both, used in the furniture item.)

REFERENCE: ASTM E1353-08ae1

IGNITION SOURCE: SRM 1196 Cigarette

SPECIMEN TEST COMPOSITE:

Upholstery Cover Material: As described in "Client's Identification".

Standard Substrate Material: Non FR polyurethane foam, density 1.8 ± 0.05 lb/ft^3

BRIEF DESCRIPTION OF TEST: Miniature cushions are prepared using the client's cover fabric over the standard filling material. The vertical or back cushions measure 8" x 8" x 2". The horizontal or seat cushions measure 8" x 5" x 2".

A lighted cigarette is placed in the crevice formed by the vertical cushion and the horizontal cushion.

The test is terminated at 45 minutes if smoldering is no longer observed.

Test measurements and observations are recorded.

-- See Page 3 for "Results" and "Conclusion" --

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PASS/FAIL/REPEAT CRITERIA: 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 vertical char length (measured as specified in step 11.9 of ASTM E1353-08ae1) of more than 1.8 inches (45 mm) develops on the cover fabric.

   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 entire 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 additional three specimens.

5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the additional three specimens fails, the cover fabric fails the test.

DISCUSSION: The current version of California Technical Bulletin 117-2013 has no provision to recognize cigarettes that self-extinguish prior to burning their entire length. However, ASTM E 1353 does recognize this phenomenon.

The Govmark report evaluates replacement cigarettes as follows:

If a cigarette self exinguishes (SE) before buning its entire length, a new cigarette is placed into the test. If the new (replacement) cigarette self-extinguishes or burns its entire length, the result for that specimen will then be evaluated as if the cigarette burned its entire length when assiging the "Passing/Failure" conclusion.

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RESULTS:

	Specimen #	Char Length (inches)	SE (yes/no)	SB45 (yes/no)	TOF (yes/no)
Initial:	1	1.0	No	No	No
	2	0.7	No	No	No
	3	0.9	No	No	No
Replacement: (If needed)	1				
	2				
	3				
Repeat Tests: (If needed)	1				
	2				
	3				

EXPLANATION:

Initial: These are the first 3 cigarettes where the results could be sufficient to draw a test conclusion.

Replacement: If any of the initial cigarettes self-extinguish before burning their complete length, a new test is conducted with a fresh cigarette.

Repeat Test: Depending on the initial or replacement results, 3 repeat tests might be required to draw a conclusion.

CODES USED:

SE = Cigarette self-extinguished; See "Discussion" on Page 2
SB45 = Smolder beyond 45 minutes
TOF = Transitions to open flaming
MNR = Measurement not recorded as smoldering exceeded 45 minutes or specimen transitioned to open flames
EC = Escalating smoldering combustion: Extinguished by technician at: (mm: ss) _____ : _____ due to unsafe conditions.

CONCLUSION:

The above results reported for the initial and / or replacement cigarettes are sufficient to indicate:

[x] Passing; [ ] Failure; [ ] Repeat test on 3 additional specimens

The results after conducting the repeat tests indicate:

[ ] Passing; [ ] Failure

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REMARKS: None.

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

AUTHORIZED SIGNATURE
GOVMARK
/pm

CINDY JARDINES
AUG 04 2015