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Received: 09/20/2017	Completed: 09/27/2017	Letter: T	BG	P.O.#: 153968	Test Report #:	3-21291-0-
Client's Identification	Origami					
Tested For: Burch 4200 Brockton Dr SE Grand Rapids, MI 49512			Key Test: CA TB 117-2013 (Section 1-Cover Fabric)/ACT Tel: (616) 698-2800			95
<p>Test Category: Cigarette Ignition Specifier: ACT LE 2015; V 08/15 NTR 9/15 Product Category: Upholstery PC: 24H d1/SM</p> <p>TEST PERFORMED: California Technical Bulletin 117-2013 - Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture (June 2013 Version)</p> <p>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.) --</p> <p>As cited by the ACT Voluntary Performance Guidelines (January 2015)</p> <p>REFERENCE: ASTM E1353-08a e1</p> <p>IGNITION SOURCE: SRM 1196 Cigarette</p> <p>SPECIMEN TEST COMPOSITE:</p> <p>Upholstery Cover Material: As described in "Client's Identification".</p> <p>Standard Substrate Material: Non FR polyurethane foam, density 1.8 ± 0.05 lb/ft³</p> <p>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".</p> <p>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.</p> <p>Test measurements and observations are recorded.</p> <p>-- See Page 3 for "Results" and "Conclusion" --</p> <p>(Page 1 of 4)</p>						

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Client's Identification	Origami					
Tested For: Burch 4200 Brockton Dr Grand Rapids, MI 49512				Key Test: CA TB 117-2013 (Section I-Cover Fabric)/ACT Tel: (616) 698-2800		

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 E1353-08a1) 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-extinguishes (SE) before burning 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 assigning the "Passing/Failure" conclusion.

ISO/IEC 17025 Certified Third Party Test Report

DATE: June 13, 2018

FILE: MTLOGI.A060718A
PO #: 154417

CLIENT: Burch
4200 Brockton Dr
Grand Rapids, MI 49512

ATTN: Customer Service

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted
Pattern Origami Incase / 008

TEST PROCEDURES:

TEST RESULTS:

**UFAC FABRIC CLASSIFICATION TEST METHOD CIGARETTE
IGNITION RESISTANCE 1990 - UFAC- CIG**

Vertical Char Length Sample 1: N/A
Vertical Char Length Sample 2: N/A
Vertical Char Length Sample 3: N/A
Obvious Ignition: Yes

NOTE: Each test is complete when cigarette has burned entire length. All components conditioned for four hours before testing.

TEST CRITERIA: FAIL per Criteria 1

1. If an obvious ignition of the polyurethane substrate occurs on one or more test assemblies the fabric is a UFAC Class II Cover Fabric. If there is obvious ignition of the fabric in any of the test assemblies the test is recorded as a failure.
2. If the vertical char of any of the three test specimens is equal to or greater than 44 mm the fabric is a UFAC Class II Cover Fabric.
3. If no individual specimen yields a vertical char of 44 mm or greater the fabric is a UFAC Class I Cover Fabric.

RESULT: UFAC Class II Cover Fabric

ISO/IEC 17025 Certified Third Party Test Report

FILE: MTLOG1.A060718A
PO #: 154417
SAMPLE IDENTIFIED BY CLIENT AS:
Fabric Submitted
Pattern Origami Incase / 008

NFPA 260

**STANDARD METHODS OF TEST AND CLASSIFICATION SYSTEM FOR
CIGARETTE IGNITION RESISTANCE OF COMPONENTS OF UPHOLSTERED FURNITURE**

SECTION 6.1 COVER FABRIC

	<u>CHAR LENGTH (mm)</u>
Sample #1:	N/A
Sample #2:	N/A
Sample #3:	N/A

RESULTS:

Evidence Of Ignition: Yes.

RESULTS: Class II

6.1.9. If an obvious ignition occurs on any of the three specimens, the smoldering materials shall be extinguished, and the sample shall be recorded as a Class II cover fabric based on the results of this test.

6.1.10. If no obvious ignition occurs, the char on the vertical panel measured from the original crevice position to the highest part of the destroyed or degraded cover fabric shall be recorded to the nearest 2.5 mm.

7.2 Cover Fabric Classification

7.2.1. Class I - Class I cover fabric shall meet the criteria of 7.2.1.1 and 7.2.1.2.

7.2.1.1. When subjected to the cover fabric test, a specimen shall show no evidence of ignition on any test assembly.

7.2.1.2. The vertical char on any of the three specimens shall not exceed 45 mm.

7.2.2. Class II - Cover fabrics that do not meet Class I criteria shall be designated as Class II.

Signed For The Company By

Adam R. Varley
Technical Director

JG/06



Stacy Sadowy
Quality Assurance Manager