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Elmo Leather

Sample: ELMO-RUSTICAL

Upholstery Leather Flammability Testing: CA TB 117-2013 (Section 1: Cover Fabric Test)

Laboratory Test Certification Number: 24135

REPORT AUTHORIZED BY: Steven D. Lange (Director) 3/10/2014

SAMPLE INFORMATION

| Client: | Elmo Leather | |
|-------------------------------|--|--|
| Address: | 622 N. Hamilton Street High Point, NC 27260 | |
| Contact: | Andy Smith | |
| Upholstery Cover Material: | ELMO-RUSTICAL | |
| Date received | February 25, 2014 | |
| Test Requested & Performed | Smolder Resistance as per TECHNICAL BULLETIN 117-2013, Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture, Section 1 Cover Fabric Test Reference: ASTM E1353-08ae1 Ignition source: SRM 1196 Cigarette Standard Substrate Material: Non FR polyurethane foam, density 1.8+0.1lb/ft³ | |

SUMMARY OF RESULTS

| Sample | Test | Results |
|---------------|-------------------------|---------|
| ELMO-RUSTICAL | TB 117-2013 (Section 1) | PASS |

Steven Lange Director Kadir Donmez Sr. Research Associate

Table 1. FLAMMABILITY – TB117-2013 (Section 1- Cover Fabric Test)

Received: 02/25/2014 | Completed: 03/10/2014 | PO#: N/A | Test Report #: 24135

Client's Sample Identification: ELMO-RUSTICAL

Tested For: Andy Smith of Elmo Leather

#3

TEST PERFORMED: CA TB 117-2013 (Section 1- Cover Fabric Test)

| INITIAL Specimen | Char Length On vertical Panel (inches) | Self-Extinguished (SE) (Yes / No) | Smoldering beyond 45 minutes (SB45) (Yes / No) | Transition to open flame (TOF) (Yes / No) |
|--------------------------|--|---|--|---|
| #1 | 0.197 | YES | NO | NO |
| #2 | 0.157 | YES | NO | NO |
| #3 | 0.197 | YES | NO | NO |
| | | | | |
| REPLACEMENT Specimen | Char Length On vertical Panel (inches) | Self-Extinguished (SE) (Yes / No) | Smoldering beyond 45 minutes (SB45) (Yes / No) | Transition to open flame (TOF) (Yes / No) |
| #1 | | | | |
| #2 | | | | |
| #3 | | | | |
| | | | | |
| REPEAT TESTS Specimen | Char Length On vertical Panel (inches) | Self-Extinguished (SE) (Yes / No) | Smoldering beyond 45 minutes (SB45) (Yes / No) | Transition to open flame (TOF) (Yes / No) |
| #1 | | | | |
| #2 | | | | |

PASS/FAIL 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 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 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.

| CONCLUSION: | Based on the above PASS / FAIL Criteria, the item tested: PASS | | | |
|---|---|--|--|--|
| CERTIFICATION: | We certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by TB 117-2013 (Section 1). | | | |
| University Of Cincinnati / Leather Research Laboratory Kadir Donmez | | | | |

EXPLANATIONS:

Initial: These are the first 3 cigarettes where the results could be sufficient to draw 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 = Self-Extinguished

SB45 = Smolder beyond 45 minutes TOF = Transition to open Flame

MNR = Measurement not recorded as smoldering exceeded 45 minutes or specimen

transitioned to open flame

Replacement Cigarettes:

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 assigned the "Passing / Failing" conclusion.

IMPORTANT INFORMATION

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The results provided by this test report relate only to the items tested.

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