

Elmo Leather

## Sample: ELMOSOFT / ELMTREASURE

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

Laboratory Test Certification Number: 24132

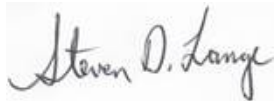
REPORT AUTHORIZED BY: Steven D. Lange (Director)  
3/10/2014

## SAMPLE INFORMATION

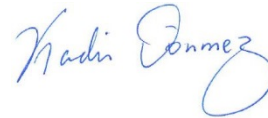
Client:	Elmo Leather
Address:	622 N. Hamilton Street High Point, NC 27260
Contact:	Andy Smith
Upholstery Cover Material:	ELMOSOFT / ELMTREASURE
Date received	February 25, 2014
Test Requested & Performed	Smolder Resistance as per TECHNICAL BULLETIN 117-2013, <i>Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture, Section 1 Cover Fabric Test</i>  <i>Reference: ASTM E1353-08ae1</i> <i>Ignition source: SRM 1196 Cigarette</i> <i>Standard Substrate Material: Non FR polyurethane foam, density 1.8±0.1lb/ft<sup>3</sup></i>

## SUMMARY OF RESULTS

Sample	Test	Results
ELMOSOFT / ELMTREASURE	TB 117-2013 (Section 1)	PASS



Steven Lange  
Director



Kadir Donmez  
Sr. Research Associate

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

<b>Received: 02/25/2014</b>		<b>Completed: 03/10/2014</b>		<b>PO#: N/A</b>	<b>Test Report #: 24132</b>
<b>Client's Sample Identification: ELMOSOFT / ELMTREASURE</b>					
<b>Tested For: Andy Smith of Elmo Leather</b>					
<b>TEST PERFORMED: CA TB 117-2013 (Section 1- Cover Fabric Test)</b>					
<b>INITIAL Specimen</b>					
	<b>Char Length On vertical Panel (inches)</b>	<b>Self-Extinguished (SE) (Yes / No)</b>	<b>Smoldering beyond 45 minutes (SB45) (Yes / No)</b>	<b>Transition to open flame (TOF) (Yes / No)</b>	
#1	0.315	YES	NO	NO	
#2	0.197	YES	NO	NO	
#3	0.394	YES	NO	NO	
<b>REPLACEMENT Specimen</b>					
	<b>Char Length On vertical Panel (inches)</b>	<b>Self-Extinguished (SE) (Yes / No)</b>	<b>Smoldering beyond 45 minutes (SB45) (Yes / No)</b>	<b>Transition to open flame (TOF) (Yes / No)</b>	
#1	--	--	--	--	
#2	--	--	--	--	
#3	--	--	--	--	
<b>REPEAT TESTS Specimen</b>					
	<b>Char Length On vertical Panel (inches)</b>	<b>Self-Extinguished (SE) (Yes / No)</b>	<b>Smoldering beyond 45 minutes (SB45) (Yes / No)</b>	<b>Transition to open flame (TOF) (Yes / No)</b>	
#1	--	--	--	--	
#2	--	--	--	--	
#3	--	--	--	--	
<p><b>PASS/FAIL CRITERIA :</b> A material is considered to pass or fail based on the following criteria:</p> <ol style="list-style-type: none"> <li>1) A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs: <ol style="list-style-type: none"> <li>a) The mock-up test specimen continues to smolder after the 45 minute test duration;</li> <li>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.</li> <li>c) The mock-up test specimen transitions to open flaming.</li> </ol> </li> <li>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.</li> <li>3) If more than one initial specimen fails, the cover fabric fails the test.</li> <li>4) If any one of the three initial specimens fails, repeat the test on additional three specimens.</li> <li>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.</li> </ol>					
<b>CONCLUSION:</b>	Based on the above PASS / FAIL Criteria, the item tested: <b>PASS</b>				
<b>CERTIFICATION:</b>	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).				
<b>University Of Cincinnati / Leather Research Laboratory</b> <b>Kadir Donmez</b>					

## 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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