



Leather Research Laboratory
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Elmo Leather

Sample: ELMONORDIC

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

Laboratory Test Certification Number: 24133

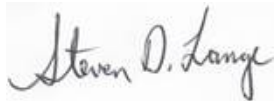
REPORT AUTHORIZED BY: Steven D. Lange (Director)
3/10/2014

SAMPLE INFORMATION

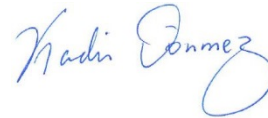
Client:	Elmo Leather
Address:	622 N. Hamilton Street High Point, NC 27260
Contact:	Andy Smith
Upholstery Cover Material:	ELMONORDIC
Date received	February 25, 2014
Test Requested & Performed	Smolder Resistance as per TECHNICAL BULLETIN 117-2013, <i>Requirements, Test Procedure and Apparatus for Testing 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/ft³</i>

SUMMARY OF RESULTS

Sample	Test	Results
ELMONORDIC	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 #: 24133
Client's Sample Identification: ELMONORDIC					
Tested For: Andy Smith of Elmo Leather					
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	0.157	YES	NO	NO	
#2	0.276	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	--	--	--	--	
#3	--	--	--	--	
<p>PASS/FAIL CRITERIA : A material is considered to pass or fail based on the following criteria:</p> <ol style="list-style-type: none"> 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"> 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

Disclaimer Of Warranties: Limitation Of Liability:

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

Any test samples or remains of the original sample are normally disposed of 30 days after the date of this report without further client notification. Clients requiring sample return must contact the Leather Research Laboratory without delay.