

Elmo Sweden AB

Elmosarek

Upholstery Leather Flammability Testing:

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

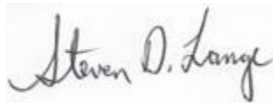
Laboratory Test Certificate Number: 31770

REPORT AUTHORIZED BY: Steven D. Lange (Director)
2/24/2026

1 of 6
Report #31770 (Elmo)
2/24/2026

SAMPLE INFORMATION

Client:	Elmo Sweden AB Kyrkogatan 18 512 50 Svenljunga, Sweden
Contact:	Henny Grandén Henny.granden@elmoleather.com
Upholstery Cover Material:	Elmosarek
Date received	February 10, 2026
Testing Date(s)	February 10, 2026 – February 24, 2026
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>



Steven Lange
Director



V. Peyton Hall
Research Associate

SUMMARY OF RESULTS

Sample	Requirements	Results
TB 117-2013 (Section 1)	Pass/Fail criteria (Table 1)	PASS

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

Received:	Completed:	PO#:	Test Report #: 31770	
Client's Sample Identification:				
Tested For:				
TEST PERFORMED: CA TB 117-2013 (Section 1- Cover Fabric Test)				
INITIAL Specimen	Char Length On vertical Panel (mm)	Self-Extinguished (SE) (Yes / No)	Smoldering beyond 45 minutes (SB45) (Yes / No)	Transition to open flame (TOF) (Yes / No)
#1	15	No	No	No
#2	13	No	No	No
#3	10	Yes	No	No
REPLACEMENT Specimen	Char Length On vertical Panel (mm)	Self-Extinguished (SE) (Yes / No)	Smoldering beyond 45 minutes (SB45) (Yes / No)	Transition to open flame (TOF) (Yes / No)
#1	--	--	--	--
#2	--	--	--	--
#3	8	Yes	No	No
REPEAT TESTS Specimen	Char Length On vertical Panel (mm)	Self-Extinguished (SE) (Yes / No)	Smoldering beyond 45 minutes (SB45) (Yes / No)	Transition to open flame (TOF) (Yes / No)
#1	--	--	--	--
#2	--	--	--	--
#3	--	--	--	--
PASS/FAIL CRITERIA : A material is considered to pass or fail based on the following criteria:				
<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				

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:

Leather Research Laboratory makes reasonable efforts to ensure the accuracy and validity of its testing. Test results reflect the condition or properties of the submitted sample(s) and may not reflect the condition or properties of similar materials from which the sample(s) was taken. Leather Research Laboratory specifically disclaims any warranty, expressed or implied, relating to the test results and analysis, their accuracy, completeness or quality, including any implied warranty of merchantability or fitness for a particular purpose. All persons or entities relying on the results of any testing do so at their own risk, and agree that Leather Research Laboratory and its employees, subcontractors and affiliates shall have no liability whatsoever from any claim of loss or damage on account of any alleged error or defect in any testing procedure or result. In no event shall Leather Research Laboratory be liable for indirect, special, incidental, or consequential damages in connection with its testing even if advised of the possibility of such damages. In no event shall Leather Research Laboratory's liability, including for direct damages, exceed the amounts paid in connection with Leather Research Laboratory's testing. Customer's sole and exclusive remedies are as set forth herein.

This test report shall not be reproduced except in full without permission of the Leather Research Laboratory.

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

Sampling Note: The LRL is not responsible for the sampling of this test item, the sample has been provided by the customer. The results apply to the sample as received.

Sample Preparation Note:

Unless stated otherwise, leather samples were mechanically ground according to method 6.2 in normative reference ISO 4044 prior to testing. (only pertains to ISO tests)

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.