

Exova
2395 Speakman Dr.
Mississauga
Ontario
Canada
L5K 1B3

T: +1 (905) 822-4111
F: +1 (905) 823-1446
E: sales@exova.com
W: www.exova.com



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California Technical Bulletin 117-2013 Section 1, Cover Fabric Test of "Lionella"

A Report To: **Chieftain Fabrics**
Wellington Place
Trim, County Meath
Ireland
C15 W248

Phone: +046 94 31396

Attention: Sinead Doyle
E-mail: sinead.doyle@chieftainfabrics.com

Submitted by: Exova Warringtonfire North America

Report No. 18-002-470
3 pages

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ACCREDITATION To ISO/IEC 17025 for a defined Scope of testing by the International Accreditation Service

SPECIFICATIONS OF ORDER

Test for flammability in accordance with California Bulletin 117-2013, Section 1, Cover Fabric Test, as per Exova Warringtonfire North America Quotation No. 18-002-568,047 dated July 30, 2018.

IDENTIFICATION (Exova sample identification number 18-002-S0470)

Material described as, "PVC upholstery fabric" and identified as, "Lionella".

SUMMARY OF TEST PROCEDURE

The test involves a miniature mock-up assembly that consists of the cover fabric to be tested along with other specified materials that are mounted on a plywood mock-up that resembles a chair seat and chair back. The assembly is exposed to a lighted cigarette* as an ignition source.

Test specimens and cigarettes are conditioned prior to the test for a minimum period of 24 hours at 21° ± 3 °C and less than 55% relative humidity. Specimens are individually removed from the conditioning chamber and testing is initiated within a 10-minute period. Test pieces 8" x 8" and 8" x 15" are placed over a specified polyurethane foam substrate which is installed on miniature mock-up apparatus. A lighted cigarette is then positioned on the crevice between the horizontal and vertical panels and a piece of specified cotton sheeting is then used to cover the cigarette.

Cigarettes are allowed to burn their full length unless an obvious ignition of the polyurethane substrate occurs. The vertical char beyond the original crevice position is recorded. The test specimen fails if:

- a) The mock-up test specimen continues to smolder after the 45-minute test duration;
- b) A vertical char length of more than 1.8 inches (45 mm) develops on the cover fabric;
- c) The mock-up test specimen transitions to open flaming.

Note: The first layer of filling materials located below the cover fabric shall also meet the requirements of CAL TB 117-2013, Section 3, Resilient Material Test.

* Cigarettes Used: NIST Standard Reference Material 1196

TEST RESULTS

California Technical Bulletin 117-2013, Section 1

Smolder Resistance of Materials Used in Upholstered Furniture - Cover Fabric Material Test

Trial	Ignition?	Vertical Char Length (mm)	Smolder after 45 minutes?	Pass / Fail?
1	No	10	No	Pass
2	No	15	No	Pass
3	No	20	No	Pass
Specified:	None	< 45 mm	None	

Observations: In all cases, melting of the fabric in the area of direct cigarette placement caused repeated extinguishment of the cigarettes. By necessity, cigarettes were re-lit as many as six times.

CONCLUSIONS

The cover fabric material identified in this report meets the requirements of California Technical Bulletin 117-2013, Section 1.



Joel Chacko,
Technologist.



Ian Smith,
Technical Manager.

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