



**NFPA 701 (CAL 117) STANDARD METHOD OF FIRE TEST
FOR FLAME-RESISTANCE TEXTILES AND FILMS**

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Submitted by: On-Site Services, Fire Lab

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3 pages

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TEST PROCEDURE

To ISO/IEC 17025 for a defined Scope of Testing by the Standards Council of Canada

SPECIFICATIONS OF ORDER

Determine flame resistance in accordance with **NFPA 701 (CAL 117)** Small Flame Test, as per our Quotation No. 10-08-16, accepted August 10, 2016.

IDENTIFICATION

Material identified as "TULLE SHOP - MESH"

PREPARATION OF SAMPLES

Six (6) specimens were cut in the dimensions of 125mm x 275mm. The specimens were received pre-treated with a fire retardant and submitted "as is" condition by the applicant. The specimens were conditioned for 30 minutes at 105°C and allowed to dry for 12 hours.

TEST PROCEDURE

Each specimen was clamped in a metal holder and suspended vertically in a burn cabinet. The centre free edge of the specimen was positioned 20mm from the match flame. flame exposure time was 12 seconds. Char length, after-flame and flaming drips were measured.

6 specimens 125mm x 275mm each

<u>fabric.com</u> -MESH	Char-Length (mm)	After Flame time (s)	Flaming Drip (s)
1	110	1.0	1.0
2	115	1.0	1.0
3	130	1.0	1.0
4	120	1.0	1.0
5	180	1.0	1.0
6	180	1.0	1.0
AVERAGE:	139.2	1.0	1.0

Maximum specified by ULC-S109 Small Scale Flame Test	165	2.0	2.0
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OBSERVATION

Specimens briefly ignited. Light smoke was produced. Afterglow occurred at the flame impingement and brief evidence of flaming drips.

EVALUATION OF FLAME RETARDANCY


The following observations were cited:

1. Brief flash occurred during the time over 110mm x 180mm of the test specimens.
2. The average duration of after-flame did not exceed 2.0 seconds.
3. The average length of the charred area was 139mm.

CONCLUSIONS

Specimens were received "as is" condition pre-treated with a fire retardant, the material identified in this report **MEETS** the flame resistance requirements for the Small-Flame Test of NFPA 701 (CAL 117).

The results of this fire test may be used to directly assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all fire conditions for the material described herein.


 Nick Plessas
 Fire Testing


 Bob Katayama
 Fire Testing

I, Brad Davies, have authorized Nick Plessas and Bob Katayama to conduct the tests in this report.

