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Testing. calibrating. advising

## **NFPA 701-2015 Test Method 2 - Flame Propagation of "AFS Connector [NEOPRENE FORTE]"**

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Submitted By: Exova Warringtonfire North America

Report No. 15-002-376(B)  
2 pages + appendix

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

**SPECIFICATIONS OF ORDER**

Determine flame resistance in accordance with Test Method 2 of NFPA 701, 2015 Edition, as per Exova Warringtonfire North America Quotation 15-002-363363 RV2 accepted June 8, 2015.

**IDENTIFICATION** (Exova sample identification number 15-002-S0376-2)

Neoprene coated fiberglass - vibration isolation connector, identified as: "AFS Connector [NEOPRENE FORTE]."

**TEST RESULTS**

**NFPA 701 - 2015 Test Method 2**  
Standard Methods of Fire Tests for  
Flame Propagation of Textiles and Films

Tested "as-received" and in flat sheet configuration.

Measured weight: 896 g/m <sup>2</sup>	Length of Char (mm)	Afterflame Time (s)	Flaming Dripping Time (s)
Trial 1:	181	0.0	0.0
2:	180	0.0	0.0
3:	181	0.0	0.0
4:	183	0.0	0.0
5:	180	0.0	0.0
6:	180	0.0	0.0
7:	181	0.0	0.0
8:	180	0.0	0.0
9:	182	0.0	0.0
10:	181	0.0	0.0
Maxima Specified by NFPA 701 Test Method 2:	435	2.0	2.0 (individual)

**CONCLUSIONS**

When tested "as-received" and in flat sheet configuration, the material identified in this report meets the flame propagation requirements of Test Method 2 of NFPA 701, 2015 Edition.

**Note: This is an electronic copy of the report. Signatures are on file with the original report.**

Victor Tarcenco,  
Technologist

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Technical Manager

Note: This report and service are covered under Exova Canada Inc. Standard Terms and Conditions of Contract which may be found on the Exova website ([www.exova.com](http://www.exova.com)), or by calling 1-866-263-9268.

**APPENDIX**

(1 page)

**Summary of Test Procedure**

**NFPA 701 - 2015 Edition**  
 Standard Methods of Fire Tests for  
Flame Propagation of Textiles and Films

Test Method 2

Note: The 2015 edition includes editorial revisions to clarify the differences between Test Method 1 and Test 2

For conducting flame tests of fabrics in the flat configuration, Test Method 2 of NFPA 701 specifies testing on at least ten specimens, each 125 x 1200 mm (5 x 47 inches).

For conducting flame tests of fabrics hung in folds, at least four specimens, each 610 x 1200 mm (24 x 47 inches) are required. Each specimen is folded longitudinally to form four folds. Those specimens that cannot be folded are tested in the flat configuration.

Prior to testing, the specimens are conditioned at 105°C (220°F) for a period of 1 to 3 hours.

If specimens melt or permanently deform at 105°C they shall be conditioned at 20°C ± 5°C for at least 24 hours prior to flame exposure.

Each specimen is removed from the conditioning chamber individually, and immediately suspended in a steel stack, 305 mm (12 inches) square and 2133 mm (84 inches) high. The stack is open at both the top and bottom and is supported 305 mm above the floor. The lower edge of the specimen is positioned 100 mm (4 inches) above the tip of a gas burner which is inclined at 25° to the vertical. The burner is adjusted to yield a flame 280 mm (11 inches) in height and is positioned directly beneath the specimen for a period of 2 minutes. Char length is then measured as the original length of the specimen minus the distance from the top edge of the specimen to the horizontal line above which all material is intact.

Flame Resistance Requirements:

<u>Specimen Configuration</u>	<u>Maximum Char Length or Destroyed Material Length (mm)</u>	<u>Maximum Afterflame Time (s)</u>	<u>Duration of Flaming Drips on Floor of Tester (s)</u>
Folded	1050	2.0	2.0
Flat	435	2.0	2.0