

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



Testing. calibrating. advising

## NFPA 701-2015 Test Method 1 - Flame Propagation of "TEXTURA"

A Report To:	<b>Dickson Coatings</b> 415 avenue de Savoie Saint Clair de la Tour 38110 France
Phone:	0033474835121
Attention:	Annabelle Aubertin
E-mail:	aaubertin@dickson-coatings.com
Submitted by:	Exova Fire Testing
Report No.	19-002-083 3 pages
Date:	February 7, 2019

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

### **SPECIFICATIONS OF ORDER**

Determine flame propagation in accordance with Test Method 1 of NFPA 701, 2015 Edition, as per Exova Quotation No. 19-002-586,870 dated January 7, 2019.

**SAMPLE IDENTIFICATION** (Exova sample identification number 19-002-S0083)

Reinforced fabric material described as, "PVC Coated Fabric", and identified as: "TEXTURA".

### **APPLICABILITY**

Test Method 1 shall apply to materials with an areal density less than or equal to  $700 \text{ g/m}^2$  ( $21 \text{ oz/yd}^2$ ).

Test Method 1 shall not apply to the following: 1) Vinyl-coated blackout linings or lined draperies using a vinyl-coated fabric blackout lining; 2) Plastic Films; 3) Decorative materials other than fabrics.

### **SUMMARY OF TEST PROCEDURE**

Ten specimens are cut, each 150 mm x 400 mm, with the length parallel to the lengthwise direction of the material. After having been weighed, the specimens are conditioned for at least 30 minutes at  $105 \pm 3^\circ\text{C}$  ( $220 \pm 5^\circ\text{F}$ ). Specimens may also be conditioned at  $20 \pm 5^\circ\text{C}$  for a minimum of 24 hours, if they melt or permanently deform at  $105^\circ\text{C}$ .

Each specimen is removed from the conditioning chamber individually and attached to a pin bar which is then mounted on a support hanger at the back ceiling of a specified test chamber. A specified gas flame is applied to the centre of the lower edge of the specimen for 45 seconds and then withdrawn. The specimen is allowed to burn until the flame self-extinguishes, after which it is removed from the pin bar and re-weighed. The percent mass loss is determined and used as a measure of total flame spread and specimen damage.

#### **Flame Propagation Performance Criteria:**

As listed in NFPA 701-2015 Edition, Chapter 10:

Where fragments or residues of specimens that fall to the floor of the test chamber continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens, the material shall be recorded as failing the test.

Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing the test.

Where the percent mass loss of any individual specimen exceeds the mean value plus three standard deviations, a second set shall be tested.

Where the percent mass loss of any individual specimen in the second set of specimens exceeds the mean value of the second set plus three standard deviations calculated for the second set, the material shall be recorded as failing the test.

**TEST RESULTS**

**NFPA 701-2015 Test Method 1**

Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

Note: Material was tested "as-received"

Measured Weight: 370 g/m<sup>2</sup>

<u>Trial</u>	<u>Initial Mass (g)</u>	<u>Final Mass (g)</u>	<u>Mass Loss (%)</u>	<u>Afterflame Time (s)</u>	<u>Flaming Dripping (s)</u>
1:	21.8	21.8	0.0	0.0	0.0
2:	22.5	22.5	0.0	0.0	0.0
3:	22.9	20.7	9.4	0.0	0.0
4:	22.5	22.5	0.1	0.0	0.0
5:	22.2	22.1	0.4	0.0	0.0
6:	21.8	21.8	0.0	0.0	0.0
7:	21.5	20.6	4.2	0.0	0.0
8:	21.3	20.6	3.4	0.0	0.0
9:	21.3	21.2	0.3	0.0	0.0
10:	21.5	21.5	0.1	0.0	0.0

Mean Mass Loss (%):	1.8	Average Flaming Dripping Time (s):	0.0
Specified Maximum Mean Mass Loss (%):	40.0	Specified Max. Flaming Drip Time (s):	2.0
Standard Deviation:	2.94	Overall Result:	<b>Pass</b>

**CONCLUSIONS**

When tested "as-received", the material identified in this report meets the flame propagation requirements of Test Method 1 of NFPA 701, 2015 Edition.



Robert A. Carelton,  
Technician.



Ian Smith,  
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.