

**Vescom B.V.**  
**Sint Jozefstraat 20**  
**5753 AV Deurne**  
**Nederland**



**Your notice of**  
03-05-2017

**Your reference**

**Date**  
10-07-2017

## Analysis Report 17.02652.15

Required tests :

**IMO - 2010 FTP Code Annex 1 - Fire Test Procedures - Test for vertically supported textiles and**  
**Fire test procedures - Part 7 films**

Identification number	Information given by the client	Date of receipt
T1709590	Etolin-8014	03-05-2017

Petra Wittevrongel

Order responsible

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The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples.  
In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.

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GENT • Technologiepark 7 • BE-9052 Zwijnaarde, Belgium • phone +32 9 220 41 51 • fax +32 9 220 49 55 • [gent@centexbel.be](mailto:gent@centexbel.be)  
GRÂCE-HOLLOGNE • Rue du Travail 5 • BE-4460 Grâce-Hollogne, Belgium • phone +32 4 296 82 00 • [g-h@centexbel.be](mailto:g-h@centexbel.be)  
KORTRIJK • Etienne Sabbelaan 49 • BE-8500 Kortrijk, Belgium • phone +32 56 281828 • fax +32 56 281830 • [info@vkc.be](mailto:info@vkc.be)  
VAT BE 0459.218.289 • IBAN BE44 2100 4729 6545 • BIC GEBABEBB

**Reference: T1709590 - Etolin-8014**

**IMO curtains**

**Information given by the client**

Type of material                      Curtain / drape

**Fabric**

Composition	100% PES (Trevira CS)
Structure	Weave
Number of threads - warp	70
Number of threads - weft	30
Yarn count - warp	Nm 100/1 CS
Yarn count - weft	Nm 70/2 CS + Nm 40/1 CS
Weight per unit area	166 g/m <sup>2</sup>
Inherently FR treated	yes

**Reference: T1709590 - Etolin-8014**

**Fire Test Procedures - Test for vertically supported textiles and films**

Date of ending the test 27-06-2017  
Standard used IMO - 2010 FTP Code Annex 1 - Fire test procedures - Part 7

Deviation from the standard -

Conditioning 20°C, relative humidity 65%

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test: they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

The test specimens have not been cleaned nor submitted to an accelerated ageing procedure.

Flame application time (s) 5 - 15

Weight (g/m<sup>2</sup>) 180

A = front - B = back

**Face A**

**Determination of the test conditions.**

**Length**

	Surface A		Edge	
Flame application time (s)	5	15	5	15
Afterflame time (s)	0	0	0	0
Afterglow (s)	0	0	0	0
Surface flash	no	no	no	no
Edge reached	no	no	no	no
Ignition cotton wool	no	no	no	no
Maximum damaged length (mm)	29	41	21	25

No sustained ignition : testing continued under conditions showing the greatest damaged length.

## Width

	Surface A		Edge	
Flame application time (s)	5	15	5	15
Afterflame time (s)	0	0	0	0
Afterglow (s)	0	0	0	0
Surface flash	no	no	no	no
Edge reached	no	no	no	no
Ignition cotton wool	no	no	no	no
Maximum damaged length (mm)	28	34	12	31

No sustained ignition : testing continued under conditions showing the greatest damaged length.

**Worst testing conditions**

Length      Surface - face A - flame application time 15 s

	1	2	3	4	5	Average
Afterflame time (s)	0	0	0	0	0	
Afterglow (s)	0	0	0	0	0	
Surface flash	no	no	no	no	no	
Edge reached	no	no	no	no	no	
Ignition cotton wool	no	no	no	no	no	
Maximum damaged length (mm)	41	40	39	65	88	55

Width      Surface - face A - flame application time 15 s

	1	2	3	4	5	Average
Afterflame time (s)	0	0	0	0	0	
Afterglow (s)	0	0	0	0	0	
Surface flash	no	no	no	no	no	
Edge reached	no	no	no	no	no	
Ignition cotton wool	no	no	no	no	no	
Maximum damaged length (mm)	34	30	32	35	35	33

**Face B****Determination of the test conditions.****Length**

	Surface B		Edge	
Flame application time (s)	5	15	5	15
Afterflame time (s)	0	0	0	0
Afterglow (s)	0	0	0	0
Surface flash	no	no	no	no
Edge reached	no	no	no	no
Ignition cotton wool	no	no	no	no
Maximum damaged length (mm)	42	60	20	20

No sustained ignition : testing continued under conditions showing the greatest damaged length.

**Width**

	Surface B		Edge	
Flame application time (s)	5	15	5	15
Afterflame time (s)	0	0	0	0
Afterglow (s)	0	0	0	0
Surface flash	no	no	no	no
Edge reached	no	no	no	no
Ignition cotton wool	no	no	no	no
Maximum damaged length (mm)	29	38	32	34

No sustained ignition : testing continued under conditions showing the greatest damaged length.

**Worst testing conditions**

Length      Surface - face B - flame application time 15 s

	1	2	3	4	5	Average
Afterflame time (s)	0	0	0	0	0	
Afterglow (s)	0	0	0	0	0	
Surface flash	no	no	no	no	no	
Edge reached	no	no	no	no	no	
Ignition cotton wool	no	no	no	no	no	
Maximum damaged length (mm)	60	34	40	40	45	44

Width      Surface - face B - flame application time 15 s

	1	2	3	4	5	Average
Afterflame time (s)	0	0	0	0	0	
Afterglow (s)	0	0	0	0	0	
Surface flash	no	no	no	no	no	
Edge reached	no	no	no	no	no	
Ignition cotton wool	no	no	no	no	no	
Maximum damaged length (mm)	38	37	31	35	38	36

***Criteria for curtains and drapes***

1. Afterflame time  $\leq 5$ s for any specimen tested with face ignition.
2. No flame propagation to the edges for any specimen tested with face ignition..
3. No ignition of the cotton wool for any specimen.
4. Average char length  $\leq 150$  mm in any of the batches tested with face or edge ignition.
5. No occurrence of a surface flash more than 100 mm from the point of ignition.

Remark: If the test for length and/or width is carried out with edge ignition, the results obtained through the edge application are considered for the purposes of the criteria 1 and 2.

**The fabric passes the proposed criteria for curtains and drapes.**