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## Test report no. 2014-1452-2

issued 12.03.2014

**Applicant:**

Vescom BV  
St. Jozefstraat 20  
  
NL-5753 AB Deurne

**Date of order:**

07.11.2013

**Date of sampling:**

no official sampling of the specimen from  
a representative of the Exova  
Warringtonfire, Frankfurt

**Date of arrival:**

07.11.2013, 29.01.2014 and 28.02.2014

**Date of test:**

08.11.2013, 26.02.2014 and 05.03.2014

**Test No.:**

2014-1121

**Order**

Testing of the flammability according to BS 5867 part 2 type C

**Description / designation of the test object**

Fabric sample designated as article P8A-10139-Belene-8002.01, -8002.05 and -8002.07,  
Milos 8008.08, Etolin 8014.04, York 8035 and P43 A

**Description of the relevant test procedure**

BS 5867 part 2 type C: 2008

BS EN ISO 15025:2002

## 1. Beschreibung des Probenmaterials

### 1.1 Details of the customer::

Fabric sample designated as article P8A-10139-Belene-8002.01, -8002.05 and -8002.07, Milos 8008.08, Etolin 8014.04, York 8035 and P43 A

These samples represent a selection of the articles listed in table 1.

Product type: Fabric  
 Use: Decorative fabric and curtains, different colours and designs  
 Nominal square weight range: 23 g/m<sup>2</sup> up to 315 g/m<sup>2</sup>

**Table 1**

| designation<br>Vescom | number<br>Vescom | square<br>weight<br>[g/m <sup>2</sup> ] |
|-----------------------|------------------|---|
| Morgan                | 8030             | 212                                     |
| Eden                  | 8036             | 23                                      |
| Dinas                 | 8040             | 45                                      |
| Tilos                 | 8038             | 62                                      |
| Carra                 | 8041             | 71                                      |
| Cedros                | 8039             | 74                                      |
| York                  | 8035             | 78                                      |
| Syrna                 | 8033             | 82                                      |
| Carmen                | 8024             | 86                                      |
| Long                  | 8037             | 88                                      |
| Arkoi                 | 8042             | 91                                      |
| Nora                  | 8032             | 92                                      |
| Marmara               | 8025             | 104                                     |
| Leros                 | 8010             | 110                                     |
| Formoza               | 8026             | 133                                     |
| Ombo                  | 8044             | 161                                     |
| Etolin                | 8014             | 166                                     |
| Salina                | 8021             | 170                                     |
| Naltar                | 8034             | 190                                     |
| Erwa                  | 8031             | 197                                     |
| Burano                | 8003             | 205                                     |
| Romo                  | 8028             | 212                                     |

| designation<br>Vescom | number<br>Vescom | square<br>weight<br>[g/m <sup>2</sup> ] |
|-----------------------|------------------|---|
| Morgan                | 8030             | 212                                     |
| Nelson                | 8029             | 212                                     |
| Sindo                 | 8027             | 212                                     |
| Faray                 | 8007             | 223                                     |
| Minu                  | 8004             | 251                                     |
| Mindoro               | 8015             | 263                                     |
| Flint                 | 8001             | 266                                     |
| Amanu                 | 8006             | 275                                     |
| Belene                | 8002             | 288                                     |
| Fara                  | 8017             | 289                                     |
| Lavan                 | 8022             | 294                                     |
| Mioko                 | 8013             | 295                                     |
| Flores                | 8018             | 297                                     |
| Milos                 | 8008             | 315                                     |

## 1.2 At the specimen preparation by the Exova Warringtonfire, Frankfurt determined values:

Fabric samples (tissues), various colours and designs

| sample No. | article                  | colour        | thickness | Square weight        |
|------------|--------------------------|---------------|-----------|----------------------|
| 1          | P8A-10139-Belene-8002.01 | beige         | 0,5 mm    | 286 g/m <sup>2</sup> |
| 2          | P8A-10139-Belene-8002.05 | rot           | 0,5 mm    | 291 g/m <sup>2</sup> |
| 3          | P8A-10139-Belene-8002.07 | braun         | 0,5 mm    | 282 g/m <sup>2</sup> |
| 4          | Milos 8008.08            | braun-grau    | 0,6 mm    | 343 g/m <sup>2</sup> |
| 5          | Etolin 8014.04           | braun-violett | 0,3 mm    | 169 g/m <sup>2</sup> |
| 6          | York 8035                | orange-grau   | 0,2 mm    | 76 g/m <sup>2</sup>  |
| 7          | P43 A                    | violett       | 0,1 mm    | 24 g/m <sup>2</sup>  |

Determined surface

weight range:

24 g/m<sup>2</sup> up to 343 g/m<sup>2</sup>

Determined thickness range:

from approx. 0.1 mm up to 0.6 mm

The samples were stored before testing under climatic conditions (23°C / 50 % rel. humidity).

Testing of the samples without additional after treatment

Because the article Etolin 8014.04 in preliminary tests showed the most critical behaviour, has been on this article carried out a full test.

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## 2. Test results

### 2.1 Test sheet according to BS 5867 part2

Specimen in direction of production: article P8A-10139-Belene-8002

specimen 1+2: -8002.01, specimen 3+4: -8002.05, specimen 5+6: -8002.07

| specimen No.                       | 1      | 2  | 3  | 4  | Limits |
|------------------------------------|--------|----|----|----|--------|
| Kind of ignition                   | S      | S  | S  | S  |        |
| Exposed surface                    | F      | B  | F  | B  |        |
| Ignition time                      | 5      | 5  | 5  | 5  |        |
| Flame time                         | 1      | 2  | 1  | 3  |        |
| After flame time                   | 0      | 0  | 0  | 0  | ≤ 2,5  |
| After glow time                    | 0      | 0  | 0  | 0  | ≤ 2,5  |
| Separating of sample parts         | yes/no | no | no | no |        |
| Separating of burning sample parts | yes/no | no | no | no | no     |
| Burned length                      | [mm]   | 40 | 30 | 40 | 30     |
| Burning through any edge           | yes/no | no | no | no | no     |

| specimen No.                       | 5      | 6  | 7  | 8 | Limits |
|------------------------------------|--------|----|----|---|--------|
| Kind of ignition                   | S      | S  | S  | S |        |
| Exposed surface                    | F      | B  | F  | B |        |
| Ignition time                      | 5      | 5  |    |   |        |
| Flame time                         | 1      | 2  |    |   |        |
| After flame time                   | 0      | 0  |    |   | ≤ 2,5  |
| After glow time                    | 0      | 0  |    |   | ≤ 2,5  |
| Separating of sample parts         | yes/no | no | no |   |        |
| Separating of burning sample parts | yes/no | no | no |   | no     |
| Burned length                      | [mm]   | 40 | 30 |   |        |
| Burning through any edge           | yes/no | no | no |   | no     |

f = frontside / b = backside

S = surface ignition / E = edge ignition

Remarks: none

## 2.2 Test sheet according to BS 5867 part2

Specimen cross to direction of production: article P8A-10139-Belene-8002  
specimen 1+2: -8002.01, specimen 3+4: -8002.05, specimen 5+6: -8002.07

|                                    | specimen No. | 1  | 2  | 3  | 4  | Limits |
|------------------------------------|--------------|----|----|----|----|--------|
| Kind of ignition                   | S/E          | S  | S  | S  | S  |        |
| Exposed surface                    | F/B          | F  | B  | F  | B  |        |
| Ignition time                      | [s]          | 5  | 5  | 5  | 5  |        |
| Flame time                         | [s]          | 1  | 2  | 2  | 1  |        |
| After flame time                   | [s]          | 0  | 0  | 0  | 0  | ≤ 2,5  |
| After glow time                    | [s]          | 0  | 0  | 0  | 0  | ≤ 2,5  |
| Separating of sample parts         | yes/no       | no | no | no | no |        |
| Separating of burning sample parts | yes/no       | no | no | no | no | no     |
| Burned length                      | [mm]         | 30 | 30 | 30 | 30 |        |
| Burning through any edge           | yes/no       | no | no | no | no | no     |

|                                    | specimen No. | 5  | 6  | 7 | 8 | Limits |
|------------------------------------|--------------|----|----|---|---|--------|
| Kind of ignition                   | S/E          | S  | S  | S | S |        |
| Exposed surface                    | F/B          | F  | B  | F | B |        |
| Ignition time                      | [s]          | 5  | 5  |   |   |        |
| Flame time                         | [s]          | 3  | 3  |   |   |        |
| After flame time                   | [s]          | 0  | 0  |   |   | ≤ 2,5  |
| After glow time                    | [s]          | 0  | 0  |   |   | ≤ 2,5  |
| Separating of sample parts         | yes/no       | no | no |   |   |        |
| Separating of burning sample parts | yes/no       | no | no |   |   | no     |
| Burned length                      | [mm]         | 35 | 40 |   |   |        |
| Burning through any edge           | yes/no       | no | no |   |   | no     |

f = frontside / b = backside

S = surface ignition / E = edge ignition

Remarks: none

### 2.3 Test sheet according to BS 5867 part2

Specimen in direction of production: specimen 1+2: article P43A, specimen 3+4: article York 8035, specimen 5+6: article Milos 8008.08

| specimen No.                       | 1      | 2   | 3  | 4  | Limits |
|------------------------------------|--------|-----|----|----|--------|
| Kind of ignition                   | F/K    | S/E | S  | S  |        |
| Exposed surface                    | V/R    | F/B | F  | B  |        |
| Ignition time                      | [s]    | 5   | 5  | 5  |        |
| Flame time                         | [s]    | 0   | 0  | 3  | 2      |
| After flame time                   | [s]    | 0   | 0  | 0  | 0      |
| After glow time                    | [s]    | 0   | 0  | 0  | 0      |
| Separating of sample parts         | yes/no | no  | no | no | no     |
| Separating of burning sample parts | yes/no | no  | no | no | no     |
| Burned length                      | [mm]   | 60  | 50 | 50 | 50     |
| Burning through any edge           | yes/no | no  | no | no | no     |

| specimen No.                       | 5      | 6  | 7  | 8 | Limits |
|------------------------------------|--------|----|----|---|--------|
| Kind of ignition                   | F/K    | F  | F  | F |        |
| Exposed surface                    | V/R    | V  | R  | V | R      |
| Ignition time                      | [s]    | 5  | 5  |   |        |
| Flame time                         | [s]    | 5  | 5  |   |        |
| After flame time                   | [s]    | 0  | 0  |   |        |
| After glow time                    | [s]    | 0  | 0  |   |        |
| Separating of sample parts         | yes/no | no | no |   |        |
| Separating of burning sample parts | yes/no | no | no |   | no     |
| Burned length                      | [mm]   | 30 | 30 |   |        |
| Burning through any edge           | yes/no | no | no |   | no     |

f = frontside / b = backside

S = surface ignition / E = edge ignition

Remarks: none

Bemerkungen:keine

## 2.4 Test sheet according to BS 5867 part2

Specimen cross to direction of production: specimen 1+2: article P43A, specimen 3+4: article York 8035, specimen 5+6: article Milos 8008.08

| specimen No.                       | 1      | 2   | 3  | 4  | Limits |
|------------------------------------|--------|-----|----|----|--------|
| Kind of ignition                   | F/K    | S/E | S  | S  |        |
| Exposed surface                    | V/R    | F/B | F  | B  |        |
| Ignition time                      | [s]    | 5   | 5  | 5  |        |
| Flame time                         | [s]    | 0   | 0  | 1  |        |
| After flame time                   | [s]    | 0   | 0  | 0  | ≤ 2,5  |
| After glow time                    | [s]    | 0   | 0  | 0  | ≤ 2,5  |
| Separating of sample parts         | yes/no | no  | no | no |        |
| Separating of burning sample parts | yes/no | no  | no | no | no     |
| Burned length                      | [mm]   | 60  | 60 | 40 |        |
| Burning through any edge           | yes/no | no  | no | no | no     |

| specimen No.                       | 5      | 6  | 7  | 8 | Limits |
|------------------------------------|--------|----|----|---|--------|
| Kind of ignition                   | S/E    | S  | S  | S |        |
| Exposed surface                    | F/B    | F  | B  | F |        |
| Ignition time                      | [s]    | 5  | 5  |   |        |
| Flame time                         | [s]    | 5  | 5  |   |        |
| After flame time                   | [s]    | 0  | 0  |   | ≤ 2,5  |
| After glow time                    | [s]    | 0  | 0  |   | ≤ 2,5  |
| Separating of sample parts         | yes/no | no | no |   |        |
| Separating of burning sample parts | yes/no | no | no |   | no     |
| Burned length                      | [mm]   | 30 | 30 |   |        |
| Burning through any edge           | yes/no | no | no |   | no     |

f = frontside / b = backside

S = surface ignition / E = edge ignition

Remarks: none

## 2.5 Test sheet according to BS 5867 part2

Specimen in direction of production: article Etolin 8014.04

| specimen No.                       | 1      | 2  | 3  | 4  | Limits |
|------------------------------------|--------|----|----|----|--------|
| Kind of ignition                   | S      | S  | S  | S  |        |
| Exposed surface                    | F      | B  | F  | B  |        |
| Ignition time                      | [s]    | 5  | 5  | 15 | 15     |
| Flame time                         | [s]    | 1  | 2  | 1  | 3      |
| After flame time                   | [s]    | 0  | 0  | 0  | 0      |
| After glow time                    | [s]    | 0  | 0  | 0  | 0      |
| Separating of sample parts         | yes/no | no | no | no | no     |
| Separating of burning sample parts | yes/no | no | no | no | no     |
| Burned length                      | [mm]   | 30 | 40 | 50 | 40     |
| Burning through any edge           | yes/no | no | no | no | no     |

| specimen No.                       | 5      | 6  | 7  | 8  | Limits |
|------------------------------------|--------|----|----|----|--------|
| Kind of ignition                   | S      | S  | S  | S  |        |
| Exposed surface                    | F      | B  | F  | B  |        |
| Ignition time                      | [s]    | 20 | 20 | 30 | 30     |
| Flame time                         | [s]    | 2  | 3  | 2  | 1      |
| After flame time                   | [s]    | 0  | 0  | 0  | 0      |
| After glow time                    | [s]    | 0  | 0  | 0  | 0      |
| Separating of sample parts         | yes/no | no | no | no | no     |
| Separating of burning sample parts | yes/no | no | no | no | no     |
| Burned length                      | [mm]   | 50 | 50 | 50 | 50     |
| Burning through any edge           | yes/no | no | no | no | no     |

f = frontside / b = backside

S = surface ignition / E = edge ignition

Remarks: none



## 2.6 Test sheet according to BS 5867 part2

Specimen cross to direction of production: article Etolin 8014.04

| specimen No.                       | 1      | 2  | 3  | 4  | Limits |
|------------------------------------|--------|----|----|----|--------|
| Kind of ignition                   | S      | S  | S  | S  |        |
| Exposed surface                    | F      | B  | F  | B  |        |
| Ignition time                      | 5      | 5  | 15 | 15 |        |
| Flame time                         | 1      | 1  | 1  | 2  |        |
| After flame time                   | 0      | 0  | 0  | 0  | ≤ 2,5  |
| After glow time                    | 0      | 0  | 0  | 0  | ≤ 2,5  |
| Separating of sample parts         | yes/no | no | no | no |        |
| Separating of burning sample parts | yes/no | no | no | no | no     |
| Burned length                      | [mm]   | 30 | 40 | 50 |        |
| Burning through any edge           | yes/no | no | no | no | no     |

| specimen No.                       | 5      | 6  | 7  | 8  | Limits |
|------------------------------------|--------|----|----|----|--------|
| Kind of ignition                   | S      | S  | S  | S  |        |
| Exposed surface                    | F      | B  | F  | B  |        |
| Ignition time                      | 20     | 20 | 30 | 30 |        |
| Flame time                         | 2      | 2  | 1  | 2  |        |
| After flame time                   | 0      | 0  | 0  | 0  | ≤ 2,5  |
| After glow time                    | 0      | 0  | 0  | 0  | ≤ 2,5  |
| Separating of sample parts         | yes/no | no | no | no |        |
| Separating of burning sample parts | yes/no | no | no | no | no     |
| Burned length                      | [mm]   | 50 | 50 | 50 |        |
| Burning through any edge           | yes/no | no | no | no | no     |

f = frontside / b = backside

S = surface ignition / E = edge ignition

Remarks: none

### 3. Assessment

The materials No. 1-7, described in chapter one, fulfills the requirements according to BS 5867 part 2 type C.

### 4. Special comment

The test result is valid for the materials, described in chapter one, in the tested square weights, thicknesses, colours and designs.

According to the experiences of the testing laboratory, also square weights, thicknesses, colours and designs with the same or lower organic content are included.

In combination with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the classification above is not valid any longer.

This test report replace the test reports 2014-1452 issued 10.04.2014 and 2014-1452-1 issued 14.07.2014 (date of signature), which are invalid from now on.

Frankfurt 29<sup>th</sup> January 2015



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Verantwortlicher Prüfer



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This Test report is a translation of the German version 2014-1452-1 (issued 12.03.2014). In case of doubt only the German version is valid  
This test report contains 10 pages.