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Testing. Advising. Assuring.

Test report
No. 2017-1118
issued 07.02.2017

Applicant: Vescom BV
St. Jozefstraat 20

NL-5753 AB Deurne

date of order: **14.01.2014, 27.01.2014 and 20.01.2017**
date of sampling: **no official taking out of the specimen from a representative of the Exova Warringtonfire, Frankfurt**
date of arrival: **16.01.2014, 31.01.2014 and 24.01.2017**
date of test: **20.01.2014, 24.02.2014 and 03.02.2017**
test number: **2014-1451**

Order:

Testing the ignitability according to BS 5852 ignition source crib 5

Description / designation of the test object

furniture fabrics

Description of the relevant test procedure

BS 5852 (2006)

1. Description of the material

1.1 Details of the customer:

Fabric samples with different square weights and colours.

description Vescom	number Vescom	square weight [g/m²]
Lombok	7005	250
Cres	7010	315
Hestan	7035	407
Ambu	7012	420
Nadi	7002	441
Samar	7018	474
Hainan Honshu	7017 7004	550
Nauru	7003	560
Yuma	7011	594
Bikar	7015	600
Keros	7006	675
Biak	7046	421

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

material: furniture fabrics

tested article:

description	colour	thickness	square weight g/m²
Keros	red	1,33 mm	667
Keros	beige	1,43	708
Keros	black	1,34	682
Cres	red	0,56	312
Ambu	red	0,84	418
Lombok	red	0,82	352
Yuma	red	1,15	553
Base	green	1,00	442

test foam: Metzler foam 80 kg/m³

Test rig: model seat

Testing after clima storing 23°C and 50% rel. humidity.

2. Test results

2.1 Test sheet according to BS 5852
Determination of the Flammability with crib 5

Measurements and Observations Test No.			1 Keros-red	2 Keros-beige	3 Keros-black
Burning / melting through the cover material		[min:s]	0:25	0:50	0:55
Inflammation of the cover material		[min:s]	1:30	1:50	1:45
Inflammation of the Filling		[min:s]	2:15	3:15	2:30
Flame spread		yes/no	no	no	no
Burn-Out of the Filling		yes/no	no	no	no
Smouldering through the filling material		yes/no	no	no	no
Flame reaches the frame		yes/no	no	no	no
Smouldering > 100 mm		yes/no	no	no	no
Smouldering > 1 hour		yes/no	no	no	no
Burning > 10 minutes		yes/no	no	no	no
Unsafe escalating combustion		yes/no	no	no	no
Dropout of the burned parts		yes/no	no	no	no
Flames go out after		[min:s]	5:40	6:05	4:30
Samples extinguished after		[min:s]	-	-	-
Smoke production		[min:s]	6:45	7:15	6:40
Destroyed (length/width/depth) area	seat	[mm]	65/165/55	70/120/55	70/100/45
	back	[mm]	400/180/60	340/90/35	340/90/50

* = whole thickness

remarks: none

result: no ignition

2.2 Test sheet according to BS 5852
Determination of the Flammability with crib 5

Measurements and Observations Test No.			4 Cres	5 Ambu	6 Lombok
Burning / melting through the cover material		[min:s]	0:15	0:12	0:14
Inflammation of the cover material		[min:s]	-	-	-
Inflammation of the Filling		[min:s]	1:20	1:24	1:20
Flame spread		yes/no	no	no	no
Burn-Out of the Filling		yes/no	no	no	no
Smouldering through the filling material		yes/no	no	no	no
Flame reaches the frame		yes/no	no	no	no
Smouldering > 100 mm		yes/no	no	no	no
Smouldering > 1 hour		yes/no	no	no	no
Burning > 10 minutes		yes/no	no	no	no
Unsafe escalating combustion		yes/no	no	no	no
Dropout of the burned parts		yes/no	no	no	no
Flames go out after		[min:s]	4:10	3:55	3:50
Samples extinguished after		[min:s]	-	-	-
Smoke production		[min:s]	5:55	5:15	5:20
Destroyed (length/width/depth) area	seat	[mm]	70/105/40	75/105/40	75/110/40
	back	[mm]	350/100/45	350/100/45	400/100/45

* = whole thickness

remarks: none

result: no ignition

2.3 Test sheet according to BS 5852
Determination of the Flammability with crib 5

Measurements and Observations Test No.			7 Yuma	8 Yuma	9 Yuma
Burning / melting through the cover material		[min:s]	0:15	0:15	0:15
Inflammation of the cover material		[min:s]	-	-	-
Inflammation of the Filling		[min:s]	1:30	1:25	1:30
Flame spread		yes/no	no	no	no
Burn-Out of the Filling		yes/no	no	no	no
Smouldering through the filling material		yes/no	no	no	no
Flame reaches the frame		yes/no	no	no	no
Smouldering > 100 mm		yes/no	no	no	no
Smouldering > 1 hour		yes/no	no	no	no
Burning > 10 minutes		yes/no	no	no	no
Unsafe escalating combustion		yes/no	no	no	no
Dropout of the burned parts		yes/no	no	no	no
Flames go out after		[min:s]	4:55	5:35	5:30
Samples extinguished after		[min:s]	-	-	-
Smoke production		[min:s]	6:40	6:35	6:30
Destroyed area (length/width/depth)	seat	[mm]	75/130/40	75/125/40	75/115/40
	back	[mm]	350/105/50	350/100/50	380/110/50

* = whole thickness

remarks: none

result: no ignition

2.4 Test sheet according to BS 5852
Determination of the Flammability with crib 5

Measurements and Observations Test No.			**10 Biak**	**11 Biak**	
Burning / melting through the cover material		**[min:s]**	0:15	0:15	
Inflammation of the cover material		**[min:s]**	0:10	0:10	
Inflammation of the Filling		**[min:s]**	-	-	
Flame spread		**yes/no**	no	no	
Burn-Out of the Filling		**yes/no**	no	no	
Smouldering through the filling material		**yes/no**	no	no	
Flame reaches the frame		**yes/no**	no	no	
Smouldering > 100 mm		**yes/no**	no	no	
Smouldering > 1 hour		**yes/no**	no	no	
Burning > 10 minutes		**yes/no**	no	no	
Unsafe escalating combustion		**yes/no**	no	no	
Dropout of the burned parts		**yes/no**	no	no	
Flames go out after		**[min:s]**	3:20	3:30	
Samples extinguished after		**[min:s]**	-	-	
Smoke production		**[min:s]**	5:15	5:30	
Destroyed area (length/width/depth)	**seat**	**[mm]**	70/105/40	75/100/40	
	back	**[mm]**	400/110/50	380/105/60	

* = whole thickness

remarks: none

result: no ignition

2.5 Appearance of the material before and after the tests:

test 1

test 1

test 2

test 2

2.6 Appearance of the material before and after the tests:

test 3

test 3

test 4

test 4

2.7 Appearance of the material before and after the tests:

test 5

test 5

test 6

test 6

2.8 Appearance of the material before and after the test:

test 7

test 7

test 8

test 8

2.9 Appearance of the material before and after the test:

test 9

test 9

test 10

test 10

2.10 Appearance of the material after the test:

test 10

3. Assessment for the on page 2 described material:

The material, described in chapter two, fulfills the requirements according to

BS 5852 with ignition source crib 5 No Ignition.

Special comment

The test results are only valid for the in chapter two described materials and test setups in the tested square weights, thicknesses, colours and designs.

According to the experiences of the testing laboratory, also intermediate square weights, thicknesses and colours are included.

In the composition with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable that the above classification is not any longer valid.
The burning behaviour in composition with other materials has to be tested separately.

The English test report was issued:

Frankfurt 15th March 2017

H. Anders
Tester in Charge

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Head of the business