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Test report
No. 2011-2507-1
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Auftraggeber:

Auftragsdatum:	**13.12.2011**
Datum der Probenahme:	**no official taking out of the specimen from a representative of the Exova Warringtonfire, Frankfurt**
Eingang der Proben:	**13.12.2011**
Datum der Prüfungen:	**11.01.2012**

Auftrag:

Determination of the ignition time according to nach EN 1101 (ISO 6940) and of the vertical flame spread according to DIN EN 13772 with classification to DIN EN 13773.

Description / designation of the test object

Textile sample designated as “article Bühnen-, Event- and Satinmolton“

Description of the relevant test procedure

EN 1101

DIN EN 13772

DIN EN 13773 (Mai 2003)

1. Description of the test material

1.1 Details of the customer:

Textile sample designated as “article Bühnen-, Event- and Satinmolton”

Construction: Cotton flame retardant treated

Application area: Stage area and deko area

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

Flame retardant treated cotton fabric

Colour: black

Thickness: 1 mm (average)

Square weight: 397 g/m² (average)

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

2.1.1 Test sheet according to EN 1101 (ISO 6940)

(Determination of the ignition time)

Test room: 21°C / 40% r. L.F.

Ignition times: 1 - 20 s

Specimen no.		1	2	3	4	5	6	7	8
Test direction	L/Q	L	L	L	L	Q	Q	Q	Q
Kind of ignition	E/S	E	E	E	E	E	E	E	E
Ignition time	[s]	1	2	3	4	1	2	3	4
Total burn time	[s]	1	2	3	4	1	2	3	4
After flame time	[s]	0	0	0	0	0	0	0	0
After glow time	[s]	0	0	0	0	0	0	0	0
After flaming ≥ 5 [s]	yes/no	no	no	no	no	no	no	no	no
Reaching of the upper edge of the specimen	yes/no	no	no	no	no	no	no	no	no
Reaching the side edges	yes/no	no	no	no	no	no	no	no	no
Drop of from sample parts*		-	-	-	-	-	-	-	-
Ignition of the filter paper*		-	-	-	-	-	-	-	-
Igntion	yes/no	no	no	no	no	no	no	no	no

If not the case, - L = length Q = width S = surface E =edge

Remarks: none

2.1.2 Test sheet according to EN 1101 (ISO 6940)

(Determination of the ignition time)

Test room: 21°C / 40% r. L.F.

Ignition times: 1 - 20 s

Specimen no.		9	10	11	12	13	14	15	16
Test direction	L/Q	L	L	L	L	Q	Q	Q	O
Kind of ignition	E/S	E	E	E	E	E	E	E	E
Ignition time	[s]	5	10	15	20	5	10	15	20
Total burn time	[s]	5	10	15	20	5	10	15	20
After flame time	[s]	0	0	0	0	0	0	0	0
After glow time	[s]	0	0	0	0	0	0	0	0
After flaming ≥ 5 [s]	yes/no	no	no	no	no	no	no	no	no
Reaching of the upper edge of the specimen	yes/no	no	no	no	no	no	no	no	no
Reaching the side edges	yes/no	no	no	no	no	no	no	no	no
Drop of from sample parts*		-	-	-	-	-	-	-	-
Ignition of the filter paper*		-	-	-	-	-	-	-	-
Igntion	yes/no	no	no	no	no	no	no	no	no

If not the case, - L = length Q = width S = surface E =edge

Remarks: none

2.2.1 Test results according to DIN EN 13772:
(Determination of the vertical flame spread)

Impact time of the radiator: 30s Ignition time: 10 s

Specimen no.		1	2	3	4	5	6
Test direction	L/Q	L	L	L	Q	Q	Q
Kind of ignition	S/E	E	E	E	E	E	E
Ignition time	[s]	10	10	10	10	10	10
Total burn time	[s]	10	10	10	21	15	10
After flame time	[s]	0	0	0	11	5	0
After glow time	[s]	0	0	0	0	0	0
Reaching the 1. mark in	[s]	-	-	-	-	-	-
Reaching the 2. mark in	[s]	-	-	-	-	-	-
Reaching the 3. mark in	[s]	-	-	-	-	-	-
Flame spread v1	[mm/min]	0	0	0	0	0	0
Flame spread v2	[mm/min]	0	0	0	0	0	0
Flame spread t v3	[mm/min]	0	0	0	0	0	0
Separating of sample parts*		-	-	-	-	-	-
Ignition of the filter paper*		-	-	-	-	-	-
Destroyed area length	[mm]	150	150	140	140	130	140
Destroyed area width	[mm]	60	50	50	50	50	50

If not the case, - L = length Q = width S = surface E =edge

Remarks: none

3. Classification:

The in chapter 1 described material fulfilles the requirements of the class 1 according to DIN EN 13773.

Besonderer Hinweis

The fire test result is only valid for the in chapter 1 described material.

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

This test report replaces the translation of the test report 2011-2507 from January 12th 2012 (date of signature) which is invalid from now on

Frankfurt, 12th April 2012

P. Scheinkönig
Tester in Charge

Dipl.-Ing. T. Zachäus
Laboratory Supervisor

The results of the tests relate only to the behaviour of the test specimen which is designated in chapter one.
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This test report is a translation of the German version 2011-2507-1 (issued 04.04.2012). In case of doubt only the German version is valid.
The report contains 6 pages.