



Testing. Advising. Assuring.

Indicative test report

No. 2013-1044

issued 22.01.2013

Applicant:

Ludvig Svensson AB
Bangatan 8
SE-51182 Kinna
Schweden

Date of order:

09.01.2013

Date of sampling:

no official taking out of the sample from
a representative of the Exova
Warringtonfire, Frankfurt

Date of arrival:

09.01.2013

Date of test:

18.01.2013

Order

Testing of the flammability (building class B1) according to DIN 4102-1 (May 1998)

Description / designation of the test object

Article Midnight, 100% FR Polyester

Description of the relevant test procedure

DIN 4102 part 1 (May 1998)

1. Description of the test material

1.1 Details of the customer:

Article Midnight, 100% FR Polyester

Intended end use: Drapes

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

fabric

colour: gold / beige

square weight: 203 g/m² (average)

Test arrangement: gold surface to the burner

Testing after storing under climatic conditions (23°C / 50 % rel. humidity).

2. Test results

2.1 “Brandschacht” test according to DIN 4102-1

Sample A: Material in direction of production

Sample B: Material cross to direction of production

Test results of the “Brandschacht” tests part 1						
line no.		measurements test sample				
			A	B	C	D
1	<u>no. test arrangement according to DIN 4102 part 15, table 1</u>		1	1		
2	<u>flame height max. over lower sample edge</u> time ¹⁾	cm	30	30		
		min : s	0:20	0:15		
3	<u>ascertainments on the front side</u> Flaming/glowing time ¹⁾	min : s	0:02	0:02		
4	<u>melting / burning through</u> time ¹⁾	min : s	0:03	0:03		
5	<u>ascertainments on the back side</u> Flaming/glowing time ¹⁾ discolouring time ¹⁾	min : s	not occured	not occured		
6		min : s	not occured	not occured		
7	<u>burning droplets</u> begin ¹⁾ extent occasional dripping of material constant dripping of material	min : s	not occured	not occured		
8						
9						
10	<u>separating from burning sample parts</u> begin ¹⁾ occasional separating parts constant separating parts	min : s	not occured	not occured		
11						
12						
13	duration of burning on the sieve tray (max.)	min : s	not occured	not occured		
14	influence on the burner flame by dripping of / separating material time ¹⁾	min : s	no	no		
15	<u>earlier end of test</u> end of the fire scenario on the sample ¹⁾ time of a possible resulted test stop ¹⁾	min : s	not occured	not occured		
16		min : s				

¹⁾ time from start of test

Test results of the "Brandschacht" tests part 2						
line no.		Measurements test sample				
			A		C	D
17	<u>flaming after end of test</u>	min : s	not	not		
18	duration		occured	occured		
19	number of sample	cm	--/--	--/--		
20	front side of sample		--/--	--/--		
21	backside of sample		--/--	--/--		
	flame length		--/--	--/--		
22	<u>glowing after end of test</u>	min . s	not	not		
23	duration		occured	occured		
24	number of sample		--/--	--/--		
25	place of occurrence		--/--	--/--		
26	lower sample part		--/--	--/--		
27	upper sample part		--/--	--/--		
	front side of sample		--/--	--/--		
	backside of sample		--/--	--/--		
28	<u>smoke density</u>		12	11		
29	< 400 % x min		--/--	--/--		
30	> 440 % x min		-	-		
	diagram in annex no.					
31	<u>residual length</u>	cm	70 / 72	76 / 76		
32	single results		68 / 70	73 / 75		
33	average of the single results	cm	70	75		
	foto of the sample on page		5	5		
34	<u>smoke temperature</u>	°C	124	121		
35	max. of the average results		0:50	0:55		
36	time ¹⁾		-	-		
	diagram in annex no.					

¹⁾ time from start of test

Remarks: Because of the residual length of > 45 cm , the quantity of tests could be reduced, according to DIN 4102-16.



Appearance of the sample A
after the "Brandschacht" test



Appearance of the sample B
after the "Brandschacht" test

3. Indicative Assessment

The indicative test results show that the in chapter 1 described material is able to fulfil the requirements of the building class B1 according to DIN 4102-1 (May 1998).

4. Special comment

The fire test result is only valid for the in chapter one described in free hanging configuration. The distance to other flat material must be more then ≥ 40 mm.

The material wasn't tested after an outside storage.

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. According to DIN 4102-1 the burning behaviour in combination with other materials has to be tested separately.

Frankfurt 22th January 2013

A handwritten signature in blue ink, appearing to read "P. Scheinkönig".

P. Scheinkönig
Tester in charge

A handwritten signature in blue ink, appearing to read "T. Zachäus".

Dipl.-Ing. T. Zachäus
Laboratory Supervisor

The results of the tests relate only to the behaviour of the test sample which is designated on the top.
Test reports are only allowed to be published or reproduced, not changed in form and tenor without permission of the Exova Warringtonfire, Frankfurt.

The abridged account of a test report is only allowed with the agreement of the von Exova Warringtonfire, Frankfurt.
This test report is a translation of the German version 2013-1044 (issued 22.01.2013). In case of doubt only the German version is valid
This test report contains 6 pages.