



Testing. Advising. Assuring.

Indicative test report

No. 2016-1641

issued 25.07.2016

Applicant: Spandex AG
Aegertweg 4
8305 Dietlikon
Schweiz

Date of order: 15.06.2016
Date of sampling: no official taking out of the sample from
a representative of the Exova
Warringtonfire, Frankfurt
Date of arrival: 07.07.2016
Date of test: 21.07.2016

Order

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

Description / designation of the test object

Sample material designated as: „IP 2561PA“

Description of the relevant test procedure

DIN 4102 part 1 (May 1998)

1. Description of the test material

1.1 Details of the customer:

Sample material designated as: „IP 2561PA“

Product description: IP 2561PA
MHI001001Aluminium sheet for Brandschachtprüfung

Intended end use of product: Self-adhesive films application

1.2 By Exova Warringtonfire, Frankfurt determined values:

Self-adhesive foil on aluminum sheet

Colour: white

Thickness: 3,1 mm

Square weight: 8,163 kg/m² (Foil + test substrate)

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

2. Test results

2.1 "Brandschacht" test according to DIN 4102-1

Sample A: Material in 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			
2	<u>flame height max. over lower sample edge</u> time ¹⁾	cm	50			
		min : s	1:23			
3	<u>ascertainments on the front side</u> Flaming/glowing time ¹⁾	min : s	1:18			
4	<u>melting / burning through</u> time ¹⁾	min : s	no			
5	<u>ascertainments on the back side</u> Flaming/glowing time ¹⁾	min : s	no			
6		discolouring time ¹⁾	min : s	no		
7	<u>burning droplets</u> begin ¹⁾ extent occasional dripping of material constant dripping of material	min : s	no			
8						
9						
10	<u>separating from burning sample parts</u> begin ¹⁾ occasional separating parts constant separating parts	min : s	no			
11						
12						
13	<u>duration of burning on the sieve tray (max.)</u>	min : s	no			
14	<u>influence on the burner flame by dripping of / separating material</u> time ¹⁾	min : s	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	no			
16		min : s				

¹⁾ time from start of test

Test results of the "Brandschacht" tests part 2						
line no.			Measurements test sample			
			A	B	C	D
17	<u>flaming after end of test</u> duration	min : s	--/--			
18	number of sample		--/--			
19	front side of sample		--/--			
20	backside of sample		--/--			
21	flame length	cm	--/--			
22	<u>glowing after end of test</u> duration	min . s	--/--			
23	number of sample		--/--			
	place of occurrence		--/--			
24	lower sample part		--/--			
25	upper sample part		--/--			
26	front side of sample		--/--			
27	backside of sample		--/--			
28	<u>smoke density</u> < 400 % x min		--/--			
29	> 440 % x min		54			
30	<u>diagram in annex no.</u>		--/--			
			1			
31	<u>residual length</u> single results	Cm	42 / 43 35 / 43			
32	average of the single results	cm	40			
33	foto of the sample on page		5			
34	<u>smoke temperature</u> max. of the average results	°C	121			
35	time ¹⁾	min : s	9:10			
36	diagram in annex no.		1			

¹⁾ time from start of test

Remarks: none

2.2 Appearance of the specimen after the test:

Sample A



3. Indicative Assessment

The determined results showed that the material is able to fulfill the requirements for the B1 classification according to DIN 4102-1 (May 1998) in the Brandschacht test.

4. Special note

The fire test result is only valid for the materials described in chapter 1, in the tested colour, thickness and surface weight, deposited with aluminium sheet.

The materials were not 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, the 24.07.2018

A handwritten signature in blue ink that reads "Anders".

H. Anders
Tester in charge

A handwritten signature in blue ink that reads "Scheinkönig".

P. Scheinkönig
Prüfstellenleiter Bau PVO

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 2016-1641 (issued 24.07.2018). In case of doubt only the German version is valid
This test report contains 6 pages and 1 annex.

Sample A:

