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Testing. Advising. Assuring.

Test report No. 2015-2273

for applying of a required "Verwendbarkeitsnachweis" issued 13.01.2016

Applicant: Chioccarello SRL

Viale dell'Industria 4 36036 Torrebelvicino

ITALIEN

Date of order: 06.11.2015

Date of sampling: no official sampling of the specimen by a representative

of Exova Warringtonfire, Frankfurt

Date of arrival: 11.12.2015

Date of test: 05.01.2016 und 06.01.2016

Order

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

Description / designation of the test object

Name of Article: "SUMMANO"

Description of the relevant test procedure

DIN 4102 part 1 (Mai 1998)

This test report did not replace the required "Verwendbarkeitsnachweis". It is only used for issuing the "Verwendbarkeitsnachweis".

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1. Description of the test material

1.1 Details of the customer:

Name of Article: "SUMMANO"

Construction:

Colour: yellow Gross weight: 250 g/m²

Description: 100% Polyester FR

Plannend are to use (flooring, curtain,...)
 How produced (coated, weaved, ...)
 Thickness:
 UPHOLSTERY
 COATED
 0.95 mm

- Flame retardant: Our fabric has a flame retardant intrinsic in the fiber

- Producer of flame retardant:
- Type of flame retardant:
- Concentration of flame retardant:
I don't know
I don't know

Adhesive: NOProducer of adhesive: NOType of adhesive: NO

- If there are different layers, please provide information for each layer: There is only 1 layer

Intended end use of product: UPHOLSTERY FABRICS

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

Fabric material

Colour: yellow

Thickness: 0,52 mm

Square weight: 252 g/m²

Testing after storing 14- days under climatic conditions (23°C / 50 % rel. humidity).

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2. Test results

2.1.1 Brandschachtprüfung according to DIN 4102-1

Sample A: Material tested in production direction

Sample B: Material tested crosswise to production direction

	Test results of the Bra	andschach	nt tests par	t 1		
line		Measurements test sample				
no.			Α	В	С	D
1	no. test arrangement according to DIN 4102 part 15, table 1		1	1		
2	flame height max. over lower sample edge	cm	30	30		
	time 1)	min : s	0:04	0:04		
3	ascertainments on the front side Flaming/glowing time 1)	min : s	0:03	0:03		
4	melting / burning through time 1)	min : s	0:06	0:05		
5	ascertainments on the back side Flaming/glowing time 1)	min : s	no	no		
6	discolouring time 1)	min : s	no	no		
7	burning droplets begin 1) extent occasional dropping of material	min : s	not occured	not occured		
9	constant dropping of material					
10 11 12	separating from burning sample parts begin ¹⁾ occasional separating parts constant separating parts	min : s	no	no		
13	duration of burning on the sieve tray (max.)	min : s	not occured	not occured		
14	influence on the burner flame by dropping of / separating material time 1)		no	no		
14		min : s				
15	earlier end of test end of the fire scenario on the sample 1)	min : s	no	no		
16	time of a possible resulted test stop 1)	min : s				

¹⁾ time from start of test



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Test results of the Brandschacht tests part 2								
line			Measurements test sample					
no.			Α	В	C	D		
	flaming after end of test		/	/				
17	duration		/	/				
18	number of sample	min : s	/	/				
19	front side of sample		/	/				
20	backside of sample		/	/				
21	flame length	cm	/	/				
	glowing after end of test		/	/				
22	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		/	/				
	smoke density							
28	< 400 % x min		4	26				
29	> 440 % x min		/	/				
28 29 30	diagram in annex no.		1	2				
	residual length							
31	single results	cm	70 / 66	70 / 70				
0.	onigio recune	0	72 / 68	70 / 66				
32	average of the single results	cm	69	69				
33	photo of the sample on page		5	5				
	smoke temperature							
34	max. of the average results	°C	116	116				
35	time 1)	min : s	6:29	9:06				
36	diagram in annex no.		1	2				

¹⁾ time from start of test

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

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2.1.2 Appearance of the specimen after the test:







Sample B



2.2.1 Normal flammability test according to DIN 4102-1

Test with edge ignition without deposit Flame application on: lower sample edge Edge ignition

Length direction

Sample-no.		1	2	3	4	E	
Time from start of test	2		5				
Ignition point [s]		1	1	1	1	1	
Reaching the measuring ma	ırk	no	no	no	no	no	
within 20 seconds	110	110	110	110	110		
Self-extinguishing of the flar	ne [s]	9	9	10	10	7	
Max. flame height	[mm]	40	40	60	60	40	
Time	[s]	7	7	8	8	5	
End of afterflaming	[s]	-	-	ı	ı	ı	
End of afterglowing	[s]	-	-	ı	ı	-	
Flames extinguished after	[s]	-	-	ı	ı	ı	
Smoke development	moderate smoke development						
(visuell impression)		moderate smoke development					
Separating from burning ma	no	no	no	no	no		
Time	[s]	-	ı	ı	ı	ı	

Remarks: none

Cross direction

Oross direction							
Sample-no.		1	2	3	4	5	
Time from start of test	5						
Ignition point [s]		1	1	1	1	1	
Reaching the measuring ma within 20 seconds	no	no	no	no	no		
Self-extinguishing of the flar	5	4	4	5	4		
Max. flame height	[mm]	30	30	30	30	30	
Time	[s]	3	3	3	3	3	
End of afterflaming	[s]	-	-	-	-	-	
End of afterglowing	[s]	-	-	-	-	-	
Flames extinguished after	[s]	-	-	-	-	-	
Smoke development	moderate emoke development						
(visuell impression)		moderate smoke development					
Separating from burning ma	no	no	no	no	no		
Time	[s]	-	-	-	-	-	

Remarks: none



2.2.2 Appearance of the sample after the small burner test:



Assessment

The material, described in chapter one fulfils the requirements of the building class B2 according to DIN 4102-1 (Mai 1998).

The determined test results show that the material also fulfils the requirements

of the building class B1

according to DIN 4102-1 (Mai 1998).

Special comment

The fire test result is only valid for the in chapter one described material in the tested colour and square weight.

The test was carried out in free hanging configuration.

The distance to other plane material must be more or equal 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.

This test report did not replace the required "Verwendbarkeitsnachweis". It is only used for issuing the "Verwendbarkeitsnachweis".

Frankfurt, the 13.01.2016

H. Anders
Tester in Charge

Dipl.-Ing. T. Zachäus Laboratory supervisor

This Test report is valid until 04.01.2021

The results of the tests relate only to the behaviour of the test specimen which is designated on the top.

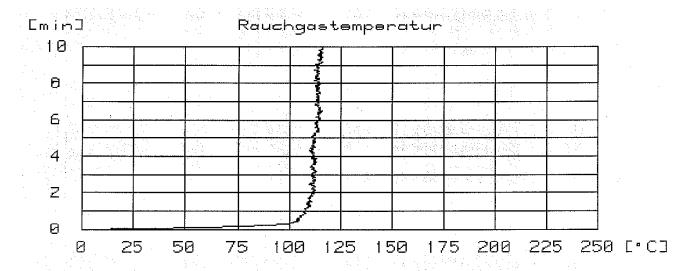
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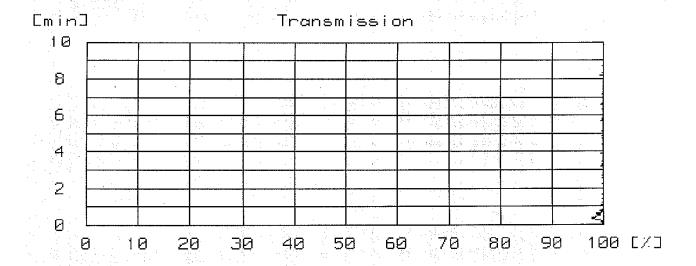
This test report is a translation of the German version 2015-2273 (issued 13.01.2016). In case of doubt only the German version is valid This test report contains 8 pages and 2 annexes.



Annex 1 to the Test report No. 2015-2273 issued 13.01.2016

Sample A:







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Annex 2 to the Test report No. 2015-2273 issued 13.01.2016

Sample B:

