

# TEST CERTIFICATE

**No. 230010740-2**

as proof of the Schwerentflammbarkeit according to DIN 4102-1 (May 1998)  
English version

## Sponsor:

Europapier CE GmbH  
Autokaderstraße 86 - 96  
1210, Vienna  
Austria

(Sent in for testing by another sponsor<sup>1)</sup>)

**Date of application:** 19.04.2012 and 18.11.2013  
**Date of sampling:** Samples were sent in by the sponsor  
**Samples delivered on** 25.04.2012, 14.06.2012 and 21.11.2013  
**Date of testing:** 11.05.2012, 14.05.2012, 27.06.2012, 28.06.2012, 23.12.2013,  
27.12.2013, 02.01.2014 and 20.01.2014

## Order

Testing according to DIN 4102-1 (May 1998) class B1

## Description / Name of tested product

Monomeric PVC self-adhesive foils „myMEDIA 1320 Monovinyl WGP“, „myMEDIA 1330 Monovinyl WMP“, „myMEDIA 1300 Monovinyl CGP“, „myMEDIA 1310 Monovinyl CMP“, „myMEDIA 1322 Monovinyl WGPG“, „myMEDIA 1332 Monovinyl WMPG“, „myMEDIA 1323 Monovinyl WGRG“, „myMEDIA 1333 Monovinyl WMRG“, „myMEDIA 1360 Monovinyl WGP“, „myMEDIA 1370 Monovinyl WMP“, „myMEDIA 1362 Monovinyl WGPG“, „myMEDIA 1372 Monovinyl WMPG“, „myMEDIA 1361 Monovinyl WGR“, „myMEDIA 1371 Monovinyl WMR“, „myMEDIA 1373 Monovinyl WMRG“, „myMEDIA 1363 Monovinyl WGRG“, „myMEDIA 5381 MonoLam Matt“ and „myMEDIA 5380 MonoLam Gloss“

(Sent in for testing with other names<sup>1)</sup>)

## Applied test procedure

DIN 4102 part 1 (May 1998)

<sup>1)</sup>Information about this are located in the file of MPA NRW

**Remark:** This test certificate is a translation of the original test certificate 230010740-2 issued 08.11.2016 in German language and is only allowed to be used together with the original test certificate.

This test certificate is valid until 02.07.2017.

The test results only relate to the above named product.

Any change in form or content to a test certificate can only be made by the approval of MPA NRW.

This test certificate consists of 23 pages and 4 appendixes.

**Designation by the sponsor:**

„myMEDIA 1320 Monovinyll WGP“, „myMEDIA 1330 Monovinyll WMP“, „myMEDIA 1300 Monovinyll CGP“, „myMEDIA 1310 Monovinyll CMP“, „myMEDIA 1322 Monovinyll WGPG“, „myMEDIA 1332 Monovinyll WMPG“, „myMEDIA 1323 Monovinyll WGRG“, „myMEDIA 1333 Monovinyll WMRG“, „myMEDIA 1360 Monovinyll WGP“, „myMEDIA 1370 Monovinyll WMP“, „myMEDIA 1362 Monovinyll WGPG“, „myMEDIA 1372 Monovinyll WMPG“, „myMEDIA 1361 Monovinyll WGR“

**Description:**

Calendered PVC foils equipped with a one-sided adhesive coating on basis of acrylate with permanent or removable adhesive behaviour

Thickness of the foils: 80 µm or 100 µm

Colour of the foils: white mat, white glossy, transparent mat or transparent glossy

Colour of the adhesive: transparent or grey

(Details given by the sponsor)

Colour of the tested foils: white

Degree of gloss of the tested foil type 800: glossy

Degree of gloss of the tested foil types 805, 905 and 925: mat

Colour of the adhesive on the tested foil types 800, 805 und 905: transparent

Colour of the adhesive on the tested foil type 925: grey

Table 1: Specific values of the tested material

		Measured min. value	Arithmetic average value	Measured max. value
Thickness	mm			
a) Foil type 1320		--	0.09	--
b) Foil type 1330		--	0.1	--
c) Foil type 1370		--	0.13	--
d) Foil type 1372		--	0.12	--
Weight per unit area	g/m <sup>2</sup>			
a) Foil type 1320		--	127	--
b) Foil type 1330		--	126	--
c) Foil type 1370		--	165	--
d) Foil type 1372		--	158	--
Density	kg/m <sup>3</sup>	--	--	--

**Special information:** The selection of the tested samples was done by MPA NRW.

**Designation by the sponsor:** „myMEDIA 1371 Monovinyl WMR“

**Description:**

Calendered PVC foil with a one-sided adhesive coating on basis of acrylate with removable adhesive behaviour

Thickness of the foil: 100 µm  
 Colour of the foil: white mat  
 Colour of the adhesive: transparent

(Details given by the sponsor)

Colour of the tested foil: white  
 Degree of gloss of the tested foil: mat  
 Colour of the adhesive on the tested foil: transparent

Table 1: Specific values of the tested material

		Measured min. value	Arithmetic average value	Measured max. value
Thickness	mm	--	0.11	--
Weight per unit area	g/m <sup>2</sup>	--	144	--
Density	kg/m <sup>3</sup>	--	--	--

**Special information:** none

**Designation by the sponsor:** „myMEDIA 1373 Monovinyl WMRG“  
 „myMEDIA 1363 Monovinyl WGRG“

**Description:**

Monomer, white foils made of calendered PVC with an adhesive coating on basis of acrylate with removable adhesive behaviour on the backside

Thickness: 120 µm

Gloss level of the foils: a) matt, b) glossy

Colour of the adhesive: grey

(Details given by the sponsor)

Colour of the tested self-adhesive foils: white

Gloss level of the tested self-adhesive foils: a) matt, b) glossy

Table 1: Specific values of the tested material

		Measured min. value	Arithmetic average value	Measured max. value
Thickness	mm	0.12	0.12	0.13
Weight per unit area	g/m <sup>2</sup>	--	157	--
Density	kg/m <sup>3</sup>	--	--	--

**Special information:** none

**Designation by the sponsor:**

„myMEDIA 5381 MonoLam Matt“

„myMEDIA 5380 MonoLam Gloss“

**Description:**

Monomer, transparent foils made of calendered PVC with a permanent adhesive coating on basis of acrylate on the backside

Thickness: 80 µm

Gloss level of the foils: a) matt, b) glossy

Colour of the adhesive: transparent

(Details given by the sponsor)

Colour of the tested self-adhesive foils: transparent

Gloss level of the tested self-adhesive foils: a) matt, b) glossy

Table 1: Specific values of the tested material

		Measured min. value	Arithmetic average value	Measured max. value
Thickness	mm	--	0.09	--
Weight per unit area	g/m <sup>2</sup>	--	129	--
Density	kg/m <sup>3</sup>	--	--	--

**Special information:** none

<b>Results of the Brandschacht test (part 1)</b>					
row-no.	Type of the foil:	measurements test specimen			
		1320 A1	1330 B1	1370 C1	1372 D1
1	<u>No. of test specimen arrangement according to DIN 4102, part 15, table 1</u>	--	--	--	--
2	<u>Max. flame height above bottom edge</u>	70	70	70	70
	cm				
4	<u>Melt through / burn through</u>				
	Time <sup>1)</sup> min : s	1:00	1:00	1:00	0:30
5	<u>Observations on the backside of the specimens</u>				
	Flames/smouldering				
6	Time <sup>1)</sup> min : s	--	--	--	--
	Discolouration				
7	Time <sup>1)</sup> min : s	10:00	10:00	10:00	10:00
	<u>Burning droplets</u>				
8	Start <sup>1)</sup> min : s	--	--	--	--
	<u>Extent</u>				
9	sporadic burning droplets	--	--	--	--
	continually falling particles	--	--	--	--
10	<u>Falling particles which burns</u>				
	Start <sup>1)</sup> min : s	--	1:27	1:29	--
11	sporadic falling parts	--	x	x	--
	continually falling particles	--	--	--	--
12	Duration of the burning on the screen bottom (max.)				
	min : s	--	0:03	--	--
13	<u>Interference of the burner flame by dripping /falling particles</u>				
	Time <sup>1)</sup> min : s	--	--	--	--
14	<u>Early termination of the test</u>				
	End of burning at the specimen <sup>1)</sup> min : s	--	--	--	--
15	Time of early cancellation of the test <sup>1)</sup> min : s	--	--	--	--
		--	--	--	--

<sup>1)</sup> Time counting from the start of the test

row-no.		Results of the Brandschichttest (part 2)							
		measurements test specimen							
		A1		B1		C1		D1	
<u>Continuous burning after termination of the test</u>									
17	Duration min : s	--	--	--	--	--	--	--	--
18	Number of specimens	--	--	--	--	--	--	--	--
19	Front side of the specimen	--	--	--	--	--	--	--	--
20	Back side of the specimen	--	--	--	--	--	--	--	--
21	Flame length cm	--	--	--	--	--	--	--	--
<u>Smouldering after termination of the test</u>									
22	Duration min : s	--	--	--	--	--	--	--	--
23	Number of specimens	--	--	--	--	--	--	--	--
<u>Location</u>									
24	Lower half of the specimens	--	--	--	--	--	--	--	--
25	Upper half of the specimens	--	--	--	--	--	--	--	--
26	Front side of the specimen	--	--	--	--	--	--	--	--
27	Backside of the specimen	--	--	--	--	--	--	--	--
<u>Smoke development</u>									
28	≤ 400 % x min	51	31	70	46				
29	> 400 % x min	--	--	--	--				
30	Diagram in appendix	--	--	--	1				
<u>Residual lengths</u>									
31	Single values cm	48	48	47	48	45	46	47	46
		48	47	49	48	47	46	47	48
32	Average values cm	48 <sup>2)</sup>	48 <sup>2)</sup>	46 <sup>2)</sup>	47 <sup>2)</sup>				
33	Photo of the specimen on page	--	--	14	--				
<u>Smoke temperature</u>									
34	Maximum value of the averaged values °C	119	116	117	122				
35	Time <sup>1)</sup> min : s	9:59	9:39	9:38	9:51				
36	Diagram in appendix Nr.	--	--	--	1				
37	<u>Remarks:</u>	<p>For the test the self-adhesive foils were glued onto steel sheets with a thickness of 0.88 mm.</p> <p>2) Due to the residual length of &gt; 45 cm further tests on these types of foils were not necessary.</p>							

Results of the Brandschacht test (part 1)					
row-no.	Type of the foil: „myMEDIA 1371 Monovinyl WMR“	measurements test specimen			
		A2			
1	<u>No. of test specimen arrangement according to DIN 4102, part 15, table 1</u>	--			
2	<u>Max. flame height above bottom edge</u>	70			
	cm				
	Time <sup>1)</sup>	1:00			
	min : s				
4	<u>Melt through / burn through</u>				
	Time <sup>1)</sup>	--			
	min : s				
5	<u>Observations on the backside of the specimens</u>				
	Flames/smouldering				
	Time <sup>1)</sup>	--			
	min : s				
6	Discolouration				
	Time <sup>1)</sup>	10:00			
	min : s				
7	<u>Burning droplets</u>				
	Start <sup>1)</sup>	--			
	min : s				
	<u>Extent</u>				
8	sporadic burning droplets	--			
9	continually falling particles	--			
10	<u>Falling particles which burns</u>				
	Start <sup>1)</sup>	1:06			
	min : s				
11	sporadic falling parts	x			
12	continually falling particles	--			
13	Duration of the burning on the screen bottom (max.)	0:02			
	min : s				
14	<u>Interference of the burner flame by dripping /falling particles</u>				
	Time <sup>1)</sup>	--			
	min : s				
15	<u>Early termination of the test</u>				
	End of burning at the specimen <sup>1)</sup>	--			
	min : s				
16	Time of early cancellation of the test <sup>1)</sup>				
	min : s	--			

<sup>1)</sup> Time counting from the start of the test



row-no.		Results of the Brandschichttest (part 2)					
		measurements test specimen					
		A2					
	<u>Continuous burning after termination of the test</u>						
17	Duration	min : s	--				
18	Number of specimens		--				
19	Front side of the specimen		--				
20	Back side of the specimen		--				
21	Flame length	cm	--				
	<u>Smouldering after termination of the test</u>						
22	Duration	min : s	--				
23	Number of specimens		--				
	<u>Location</u>						
24	Lower half of the specimens		--				
25	Upper half of the specimens		--				
26	Front side of the specimen		--				
27	Backside of the specimen		--				
	<u>Smoke development</u>						
28	≤ 400 % x min		63				
29	> 400 % x min		--				
30	Diagram in appendix		2				
	<u>Residual lengths</u>						
31	Single values	cm	46	44			
			48	48			
32	Average values	cm	47 <sup>2)</sup>				
33	Photo of the specimen on page		15				
	<u>Smoke temperature</u>						
34	Maximum value of the averaged values °C		119				
35	Time <sup>1)</sup>	min : s	9:59				
36	Diagram in appendix Nr.		2				
37	<u>Remarks:</u>						
<p>For the test the self-adhesive foils were glued onto steel sheets with a thickness of 0.88 mm.</p> <p>2) Due to the residual length of &gt; 45 cm further tests on this type of foil were not necessary.</p>							

<b>Results of the Brandschacht test (part 1)</b>					
Type of the foils: „myMEDIA 1373 Monovinyl WMRG“ and „myMEDIA 1363 Monovinyl WGRG“		measurements test specimen			
row- no.	Gloss level of the foils:	matt A3	glossy B3		
1	<u>No. of test specimen arrangement according to DIN 4102, part 15, table 1</u>	--	--		
2	<u>Max. flame height above bottom edge</u> cm	70	70		
	Time <sup>1)</sup> min : s	1:00	1:00		
4	<u>Melt through / burn through</u> Time <sup>1)</sup> min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
5	<u>Observations on the backside of the specimens</u> Flames/smouldering				
	Time <sup>1)</sup> min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
6	Discolouration Time <sup>1)</sup> min : s	10:00	10:00		
7	<u>Burning droplets</u> Start <sup>1)</sup> min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
	<u>Extent</u>				
8	sporadic burning droplets	-- <sup>2)</sup>	-- <sup>2)</sup>		
9	continually falling particles	-- <sup>2)</sup>	-- <sup>2)</sup>		
10	<u>Falling particles which burns</u> Start <sup>1)</sup> min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
	sporadic falling parts	-- <sup>2)</sup>	-- <sup>2)</sup>		
	continually falling particles	-- <sup>2)</sup>	-- <sup>2)</sup>		
13	Duration of the burning on the screen bottom (max.) min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
14	<u>Interference of the burner flame by dripping /falling particles</u>				
	Time <sup>1)</sup> min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
15	<u>Early termination of the test</u> End of burning at the specimen <sup>1)</sup> min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
	Time of early cancellation of the test <sup>1)</sup> min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
16		-- <sup>2)</sup>	-- <sup>2)</sup>		

<sup>1)</sup> Time counting from the start of the test

row-no.		Results of the Brandschichttest (part 2)			
		measurements test specimen			
		A3	B3		
<u>Continuous burning after termination of the test</u>					
17	Duration min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
18	Number of specimens	-- <sup>2)</sup>	-- <sup>2)</sup>		
19	Front side of the specimen	-- <sup>2)</sup>	-- <sup>2)</sup>		
20	Back side of the specimen	-- <sup>2)</sup>	-- <sup>2)</sup>		
21	Flame length cm	-- <sup>2)</sup>	-- <sup>2)</sup>		
<u>Smouldering after termination of the test</u>					
22	Duration min : s	-- <sup>2)</sup>	-- <sup>2)</sup>		
23	Number of specimens	-- <sup>2)</sup>	-- <sup>2)</sup>		
<u>Location</u>					
24	Lower half of the specimens	-- <sup>2)</sup>	-- <sup>2)</sup>		
25	Upper half of the specimens	-- <sup>2)</sup>	-- <sup>2)</sup>		
26	Front side of the specimen	-- <sup>2)</sup>	-- <sup>2)</sup>		
27	Backside of the specimen	-- <sup>2)</sup>	-- <sup>2)</sup>		
<u>Smoke development</u>					
28	≤ 400 % x min	45	57		
29	> 400 % x min	-- <sup>2)</sup>	-- <sup>2)</sup>		
30	Diagram in appendix	3	--		
<u>Residual lengths</u>		46	47	46	47
31	Single values cm	48	48	46	42
32	Average values cm	47 <sup>3)</sup>	45 <sup>3)</sup>		
33	Photo of the specimen on page	--	16		
<u>Smoke temperature</u>					
34	Maximum value of the averaged values °C	118	116		
35	Time <sup>1)</sup> min : s	9:28	1:13		
36	Diagram in appendix Nr.	3	--		
37	<u>Remarks:</u>  For the test the self-adhesive foils were glued onto steel sheets with a thickness of 0.88 mm.  2) did not occur 3) Due to the average residual length of > 45 cm further tests on these types of foils were not necessary according to DIN 4102-16 section 5.2 b).				

Results of the Brandschacht test (part 1)					
row-no.	Type of the foils: „myMEDIA 5381 MonoLam Matt“ and „myMEDIA 5380 MonoLam Gloss“	Gloss level of the foils:	measurements test specimen		
			matt A4	glossy B4	glossy C4
1	<u>No. of test specimen arrangement according to DIN 4102, part 15, table 1</u>		--	--	--
2	<u>Max. flame height above bottom edge</u>	cm	70	60	70
	Time <sup>1)</sup>	min : s	0:30	0:30	1:00
4	<u>Melt through / burn through</u>		-- <sup>2)</sup>	-- <sup>2)</sup>	-- <sup>2)</sup>
5	<u>Observations on the backside of the specimens</u>				
	Flames/smouldering		-- <sup>2)</sup>	-- <sup>2)</sup>	-- <sup>2)</sup>
6	Discolouration				
	Time <sup>1)</sup>	min : s	10:00	10:00	10:00
7	<u>Burning droplets</u>				
	Start <sup>1)</sup>	min : s	-- <sup>2)</sup>	-- <sup>2)</sup>	-- <sup>2)</sup>
8	<u>Extent</u>				
	sporadic burning droplets		-- <sup>2)</sup>	-- <sup>2)</sup>	-- <sup>2)</sup>
9	<u>continually falling particles</u>				
			-- <sup>2)</sup>	-- <sup>2)</sup>	-- <sup>2)</sup>
10	<u>Falling particles which burns</u>				
	Start <sup>1)</sup>	min : s	-- <sup>2)</sup>	-- <sup>2)</sup>	1:59
11	sporadic falling parts		-- <sup>2)</sup>	-- <sup>2)</sup>	x
12	continually falling particles		-- <sup>2)</sup>	-- <sup>2)</sup>	-- <sup>2)</sup>
13	Duration of the burning on the screen bottom (max.)	min : s	-- <sup>2)</sup>	-- <sup>2)</sup>	0:02
14	<u>Interference of the burner flame by dripping /falling particles</u>				
	Time <sup>1)</sup>	min : s	-- <sup>2)</sup>	-- <sup>2)</sup>	-- <sup>2)</sup>
15	<u>Early termination of the test</u>				
	End of burning at the specimen <sup>1)</sup>	min : s	-- <sup>2)</sup>	-- <sup>2)</sup>	-- <sup>2)</sup>
16	Time of early cancellation of the test <sup>1)</sup>	min : s	-- <sup>2)</sup>	-- <sup>2)</sup>	-- <sup>2)</sup>

<sup>1)</sup> Time counting from the start of the test

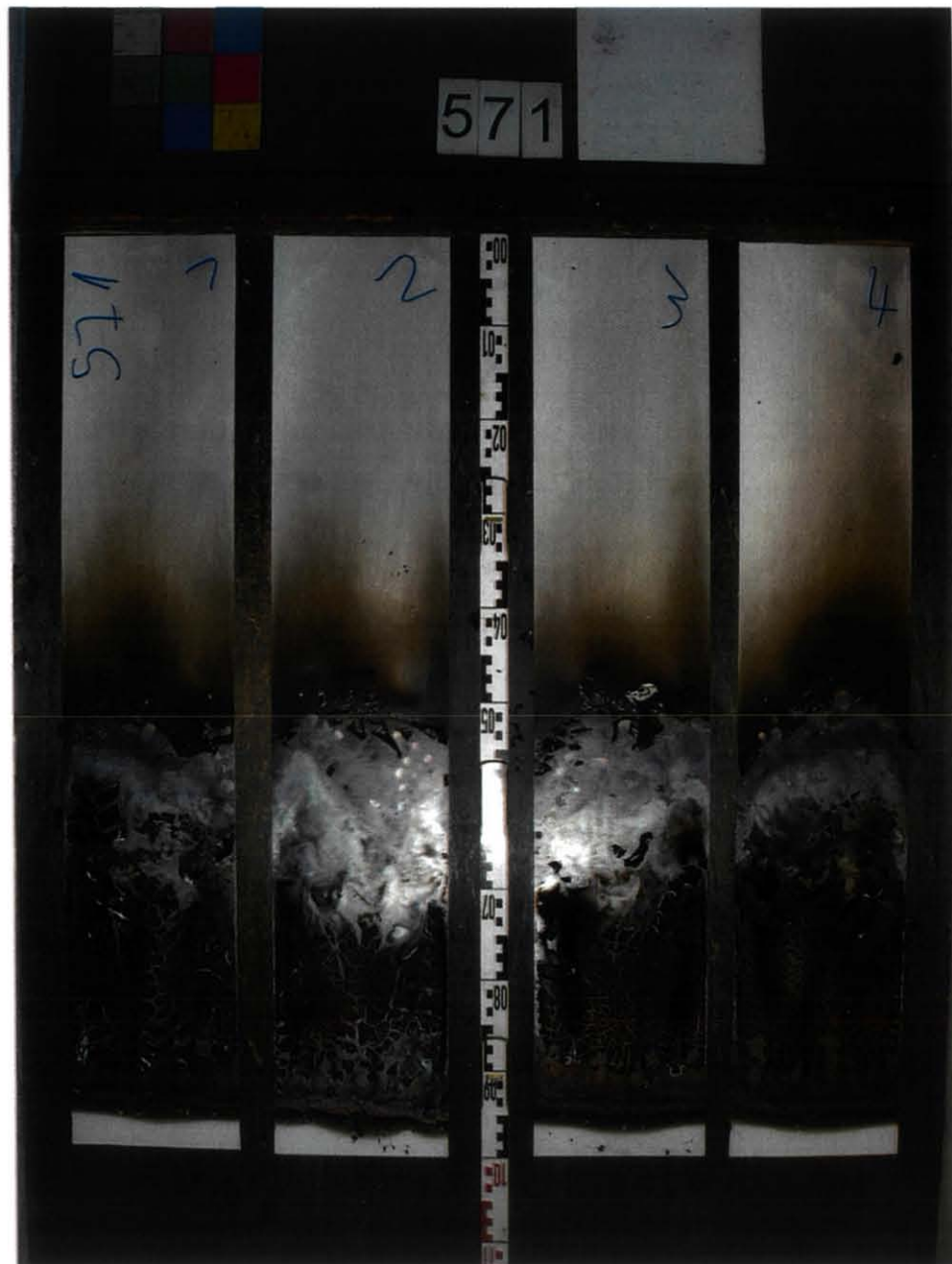
row-no.		Results of the Brandschachttest (part 2)					
		measurements test specimen					
		A4		B4		C4	
		<u>Continuous burning after termination of the test</u>					
17	Duration min : s	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
18	Number of specimens	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
19	Front side of the specimen	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
20	Back side of the specimen	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
21	Flame length cm	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
		<u>Smouldering after termination of the test</u>					
22	Duration min : s	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
23	Number of specimens	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
		<u>Location</u>					
24	Lower half of the specimens	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
25	Upper half of the specimens	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
26	Front side of the specimen	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
27	Backside of the specimen	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>2)</sup>	
		<u>Smoke development</u>					
28	≤ 400 % x min	60		40		-- <sup>3)</sup>	
29	> 400 % x min	-- <sup>2)</sup>		-- <sup>2)</sup>		-- <sup>3)</sup>	
30	Diagram in appendix	4		--		--	
		<u>Residual lengths</u>					
31	Single values cm	41	42	42	43	38	43
		42	41	41	42	44	39
32	Average values cm	42		42		41	
33	Photo of the specimen on page	17		--		--	
		<u>Smoke temperature</u>					
34	Maximum value of the averaged values °C	115		115		113	
35	Time <sup>1)</sup> min : s	9:52		9:50		10:00	
36	Diagram in appendix Nr.	4		--		--	
37	<u>Remarks:</u>						
	For the test the self-adhesive foils were glued onto steel sheets with a thickness of 0.88 mm.						
	2) did not occur						
	3) Due to a technical problem at the data logging no declaration is possible.						



Picture 1: Appearance of specimen C1 after the test

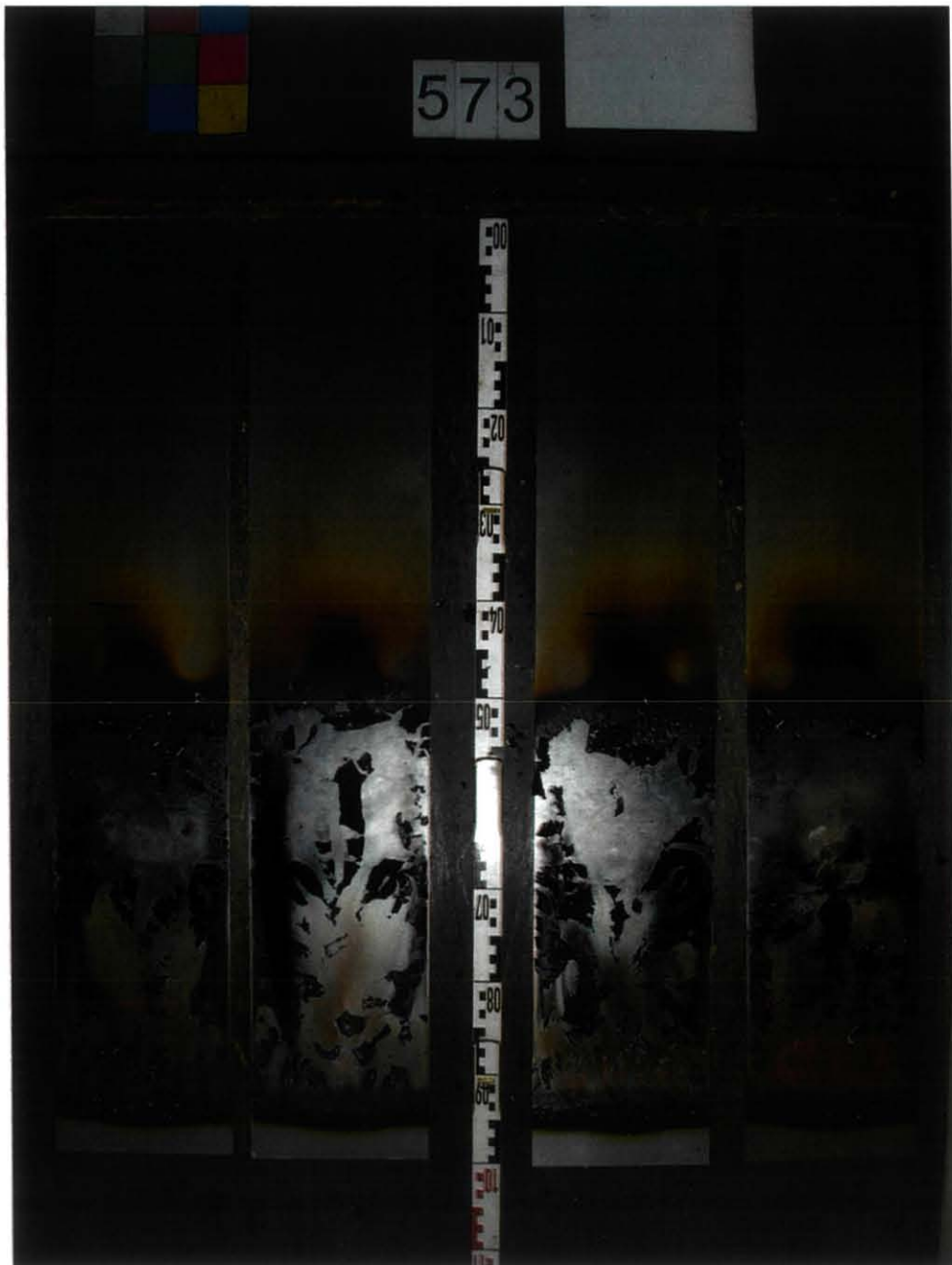


Picture 1: Appearance of specimen A2 after the test



Picture 1: Appearance of specimen B3 after the test





Picture 1: Appearance of specimen A4 after the test

**Results of the B2-testing according to DIN 4102-01**

(Tests with flaming the edge)

Protection of edges: --  
 Point of flame attack: lower edge of the front side, flaming of the foil type „myMEDIA 1320 Mono-vinyl WGP“ glued on 0.88 mm thick steel sheets

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	--	1	1	1	1
Flame passing the limit mark (s)	--	--	--	--	--
Self extinguishment (s)	--	2	2	1	2
Max. height of the flame (cm)	0	1	1	1	1
Continuous burning after 20 s	--	--	--	--	--
Continuous smouldering after 20 s	--	--	--	--	--
Extinguishment of flames / glowing after passing the limit mark	--	--	--	--	--
Smoke development (visual observation)	very low				
Falling of burning particles / droplets time (s)	--	--	--	--	--

Point of flame attack: lower edge of the front side, flaming of the foil type „myMEDIA 1330 Mono-vinyl WMP“ glued on 0.88 mm thick steel sheets

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	1	1	1	1	1
Flame passing the limit mark (s)	--	--	--	--	--
Self extinguishment (s)	4	2	2	2	2
Max. height of the flame (cm)	1	1	1	1	1
Continuous burning after 20 s	--	--	--	--	--
Continuous smouldering after 20 s	--	--	--	--	--
Extinguishment of flames / glowing after passing the limit mark	--	--	--	--	--
Smoke development (visual observation)	very low				
Falling of burning particles / droplets time (s)	--	--	--	--	--

**Results of the B2-testing according to DIN 4102-01**

(Tests with flaming the edge)

Protection of edges: --  
 Point of flame attack: lower edge of the front side, flaming of the foil type „myMEDIA 1370 Mono-vinyl WMP“ glued on 0.88 mm thick steel sheets

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	1	1	1	1	1
Flame passing the limit mark (s)	--	--	--	--	--
Self extinguishment (s)	2	2	2	2	2
Max. height of the flame (cm)	1	1	1	1	1
Continuous burning after 20 s	--	--	--	--	--
Continuous smouldering after 20 s	--	--	--	--	--
Extinguishment of flames / glowing after passing the limit mark	--	--	--	--	--
Smoke development (visual observation)	very low				
Falling of burning particles / droplets time (s)	--	--	--	--	--

Point of flame attack: lower edge of the front side, flaming of the foil type „myMEDIA 1372 Mono-vinyl WMPG“ glued on 0.88 mm thick steel sheets

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	--	--	--	--	--
Flame passing the limit mark (s)	--	--	--	--	--
Self extinguishment (s)	--	--	--	--	--
Max. height of the flame (cm)	0	0	0	0	0
Continuous burning after 20 s	--	--	--	--	--
Continuous smouldering after 20 s	--	--	--	--	--
Extinguishment of flames / glowing after passing the limit mark	--	--	--	--	--
Smoke development (visual observation)	not observable				
Falling of burning particles / droplets time (s)	--	--	--	--	--

**Results of the B2-testing according to DIN 4102-01**

(Tests with flaming the edge)

Protection of edges: --  
 Point of flame attack: lower edge of the front side, flaming of the foil type „myMEDIA 1371 Mono-vinyl WMR“ glued on 0.88 mm thick steel sheets

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	1	1	1	1	1
Flame passing the limit mark (s)	--	--	--	--	--
Self extinguishment (s)	3	1	1	2	2
Max. height of the flame (cm)	1	1	1	1	1
Continuous burning after 20 s	--	--	--	--	--
Continuous smouldering after 20 s	--	--	--	--	--
Extinguishment of flames / glowing after passing the limit mark	--	--	--	--	--
Smoke development (visual observation)	very low				
Falling of burning particles / droplets time (s)	--	--	--	--	--

**Results of the B2-testing according to DIN 4102-01**

(Tests with flaming the edge)

Protection of edges: --

Point of flame attack: lower edge of the front side, flaming of the foil type „myMEDIA 1373 Mono-vinyl WMRG“ glued on 0.88 mm thick steel sheets

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	1	1	1	1	1
Flame passing the limit mark (s)	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Self extinguishment (s)	15	15	15	15	15
Max. height of the flame (cm)	1	1	1	1	1
Continuous burning after 20 s	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Continuous smouldering after 20 s	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Extinguishment of flames / glowing after passing the limit mark	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Smoke development (visual observation)	very low				
Falling of burning particles / droplets time (s)	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>

Remarks: 1) Did not occur

Point of flame attack: lower edge of the front side, flaming of the foil type „myMEDIA 1363 Mono-vinyl WGRG“ glued on 0.88 mm thick steel sheets

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	1	1	1	1	1
Flame passing the limit mark (s)	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Self extinguishment (s)	15	15	15	15	15
Max. height of the flame (cm)	1	1	1	1	1
Continuous burning after 20 s	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Continuous smouldering after 20 s	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Extinguishment of flames / glowing after passing the limit mark	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Smoke development (visual observation)	very low				
Falling of burning particles / droplets time (s)	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>

Remarks: 1) Did not occur

**Results of the B2-testing according to DIN 4102-01**

(Tests with flaming the edge)

Protection of edges: --  
 Point of flame attack: lower edge of the front side, flaming of the foil type „myMEDIA 5381 Mono-Lam Matt“ glued on 0.88 mm thick steel sheets

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	1	1	-- <sup>1)</sup>	-- <sup>1)</sup>	1
Flame passing the limit mark (s)	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Self extinguishment (s)	3	2	--	--	2
Max. height of the flame (cm)	1	1	0	0	1
Continuous burning after 20 s	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Continuous smouldering after 20 s	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Extinguishment of flames / glowing after passing the limit mark	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Smoke development (visual observation)	very low				
Falling of burning particles / droplets time (s)	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>

Remarks: 1) Did not occur

Point of flame attack: lower edge of the front side, flaming of the foil type „myMEDIA 5380 Mono-Lam Gloss“ glued on 0.88 mm thick steel sheets

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	1	1	1	1	1
Flame passing the limit mark (s)	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Self extinguishment (s)	15	15	15	15	15
Max. height of the flame (cm)	1	1	1	1	1
Continuous burning after 20 s	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Continuous smouldering after 20 s	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Extinguishment of flames / glowing after passing the limit mark	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>
Smoke development (visual observation)	very low				
Falling of burning particles / droplets time (s)	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>	-- <sup>1)</sup>

Remarks: 1) Did not occur

**Note:** Due to the low flame heights by flaming the edge negative results by flaming the surface are not expected. By this reason tests with flaming the surface were not necessary according to DIN 4102-1 section 6.2.5.3.

### Assessment

- The products described on the pages 2 till 5 fulfilled the requirements of building products according to Baustoffklasse B2. According to the results, the products as tested in the described arrangement also fulfil the requirements of building products according to Baustoffklasse B1. In consequence the products can be classified as

#### **Baustoffklasse B1 (schwerentflammbare Baustoffe)**

according to DIN 4102 part 1 (Mai 1998). This assessment is only valid, if the foils are glued on steel substrate. The surface of the self-adhesive foils may be printed, but not be covered with paints, coatings or similar products. The resistance of the fire behaviour against climatic influences in the outside was not proofed. Therefore the product may be used as schwerentflammbar only inside of buildings or in otherwise weather protected areas.

- The material does not produce burning droplets / particles.

### Special remark

- The validity of this test certificate ends on 02.07.2017. The period of validity can be extended on application.
- Since the above mentioned materials are used for markings, letterings and decorations they are no building products according to §2 chapter 9 no. 1 MBO. An allgemeines bauaufsichtliches Prüfzeugnis of the test institute respectively an allgemeine bauaufsichtliche Zulassung of Deutsches Institut für Bautechnik, Berlin is not necessary.
- This test certificate is not the requested approval, if the tested material is used as building product according to the German building regulations.

### Marking

The above mentioned materials have to be marked as following:

- "Only schwerentflammbar (class DIN 4102-B1) glued on steel substrate"

The marking shall be done on the material, on an enclosed paper or on the packaging or, if this would be too difficult, on the delivery-note or on an enclosure to the delivery-note.

This test certificate is solely valid in combination with the original test certificate issued in German language and dated of 08.11.2016. In case of doubt, the certificate issued in German language is valid solely.

Erwitte, 08.11.2016

On behalf



Dipl.-Ing. Schreiner

Assistant Head of testing body



Date of issue of this English version: 08.11.2016

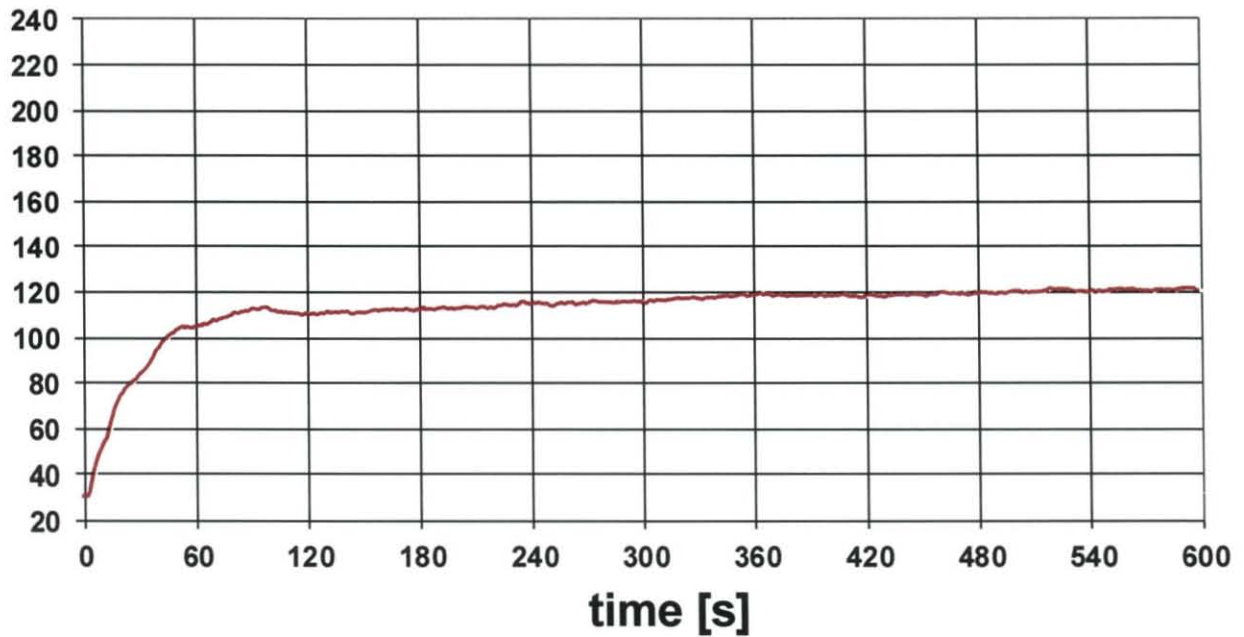
Max. flue gas-temperature = 122 °C  
at [min : s] 09 : 51

Smoke-development [% x min]: 46

Enclosure 1 of test report  
no. 230010740-2 of 08.11.2016

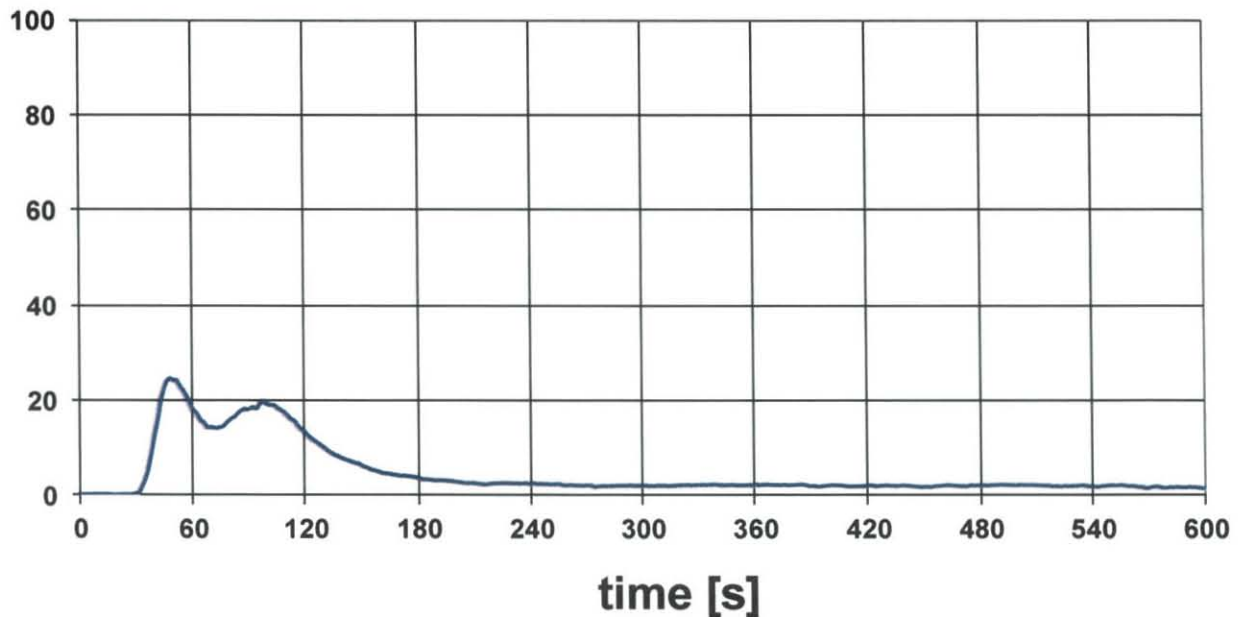
T [°C]

### Average flue gas-temperature



RD [%]

### Smoke-development



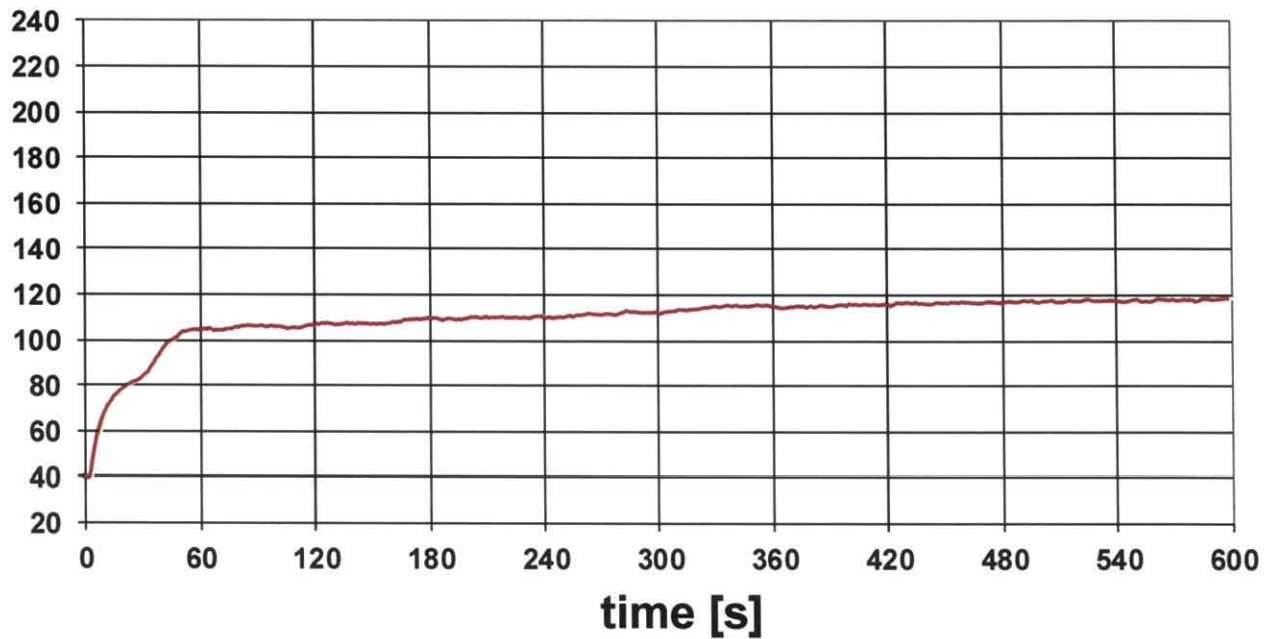


Max. flue gas-temperature = 119 °C  
at [min : s] 09 : 59

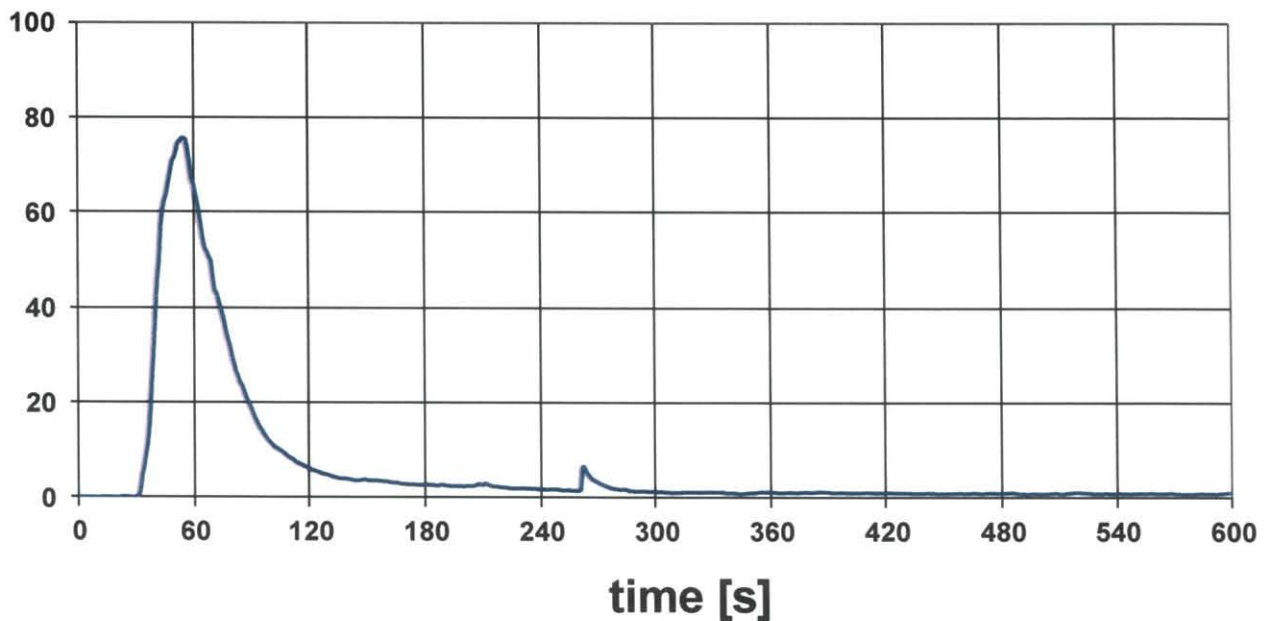
Smoke-development [% x min]: 63

Enclosure 2 of test report  
no. 230010740-2 of 08.11.2016

### T [°C] Average flue gas-temperature



### RD [%] Smoke-development

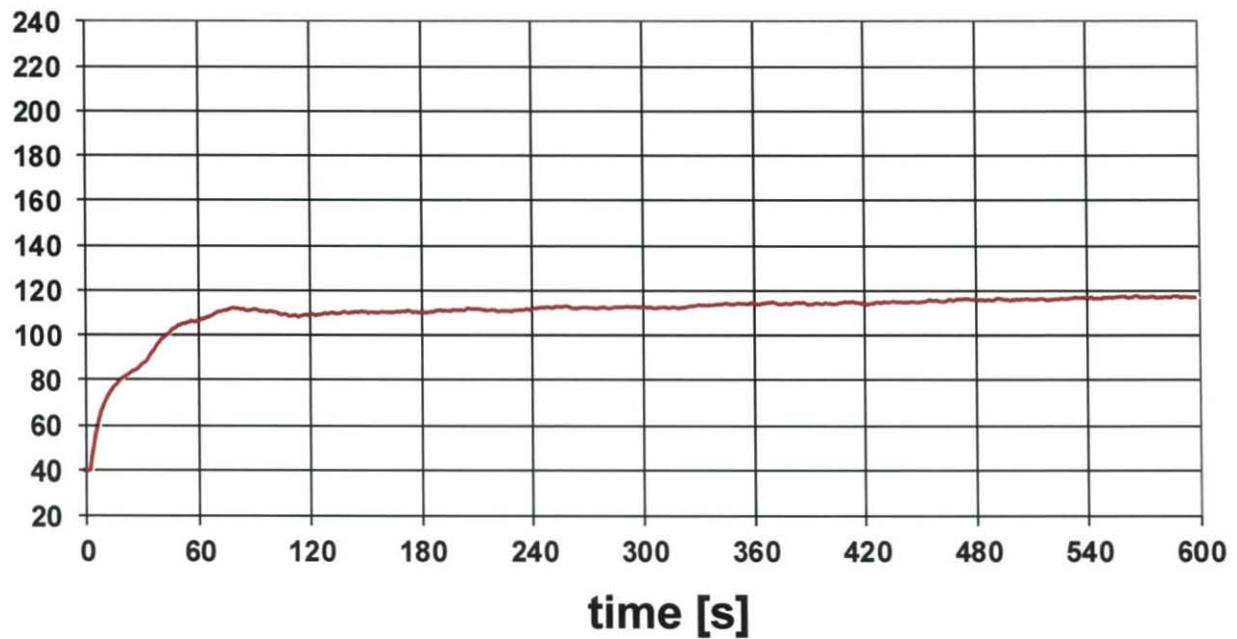


Max. flue gas-temperature = 118 °C  
at [min : s] 09 : 28

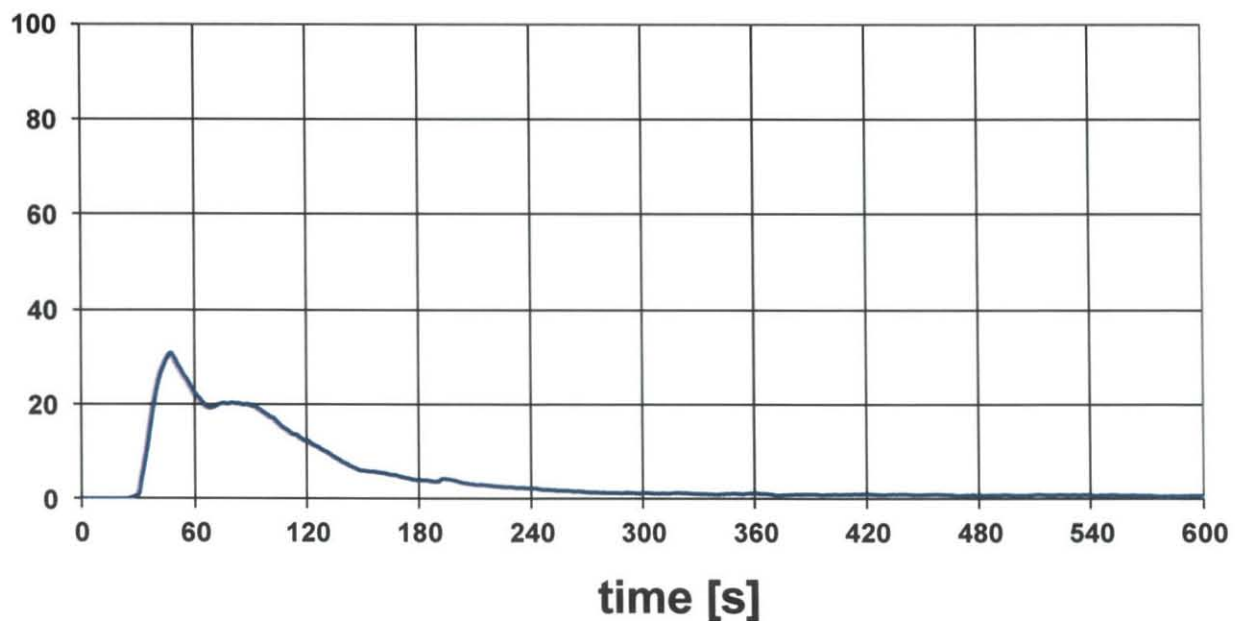
Smoke-development [% x min]: 45

Enclosure 3 of test report  
no. 230010740-2 of 08.11.2016

### T [°C] Average flue gas-temperature



### RD [%] Smoke-development



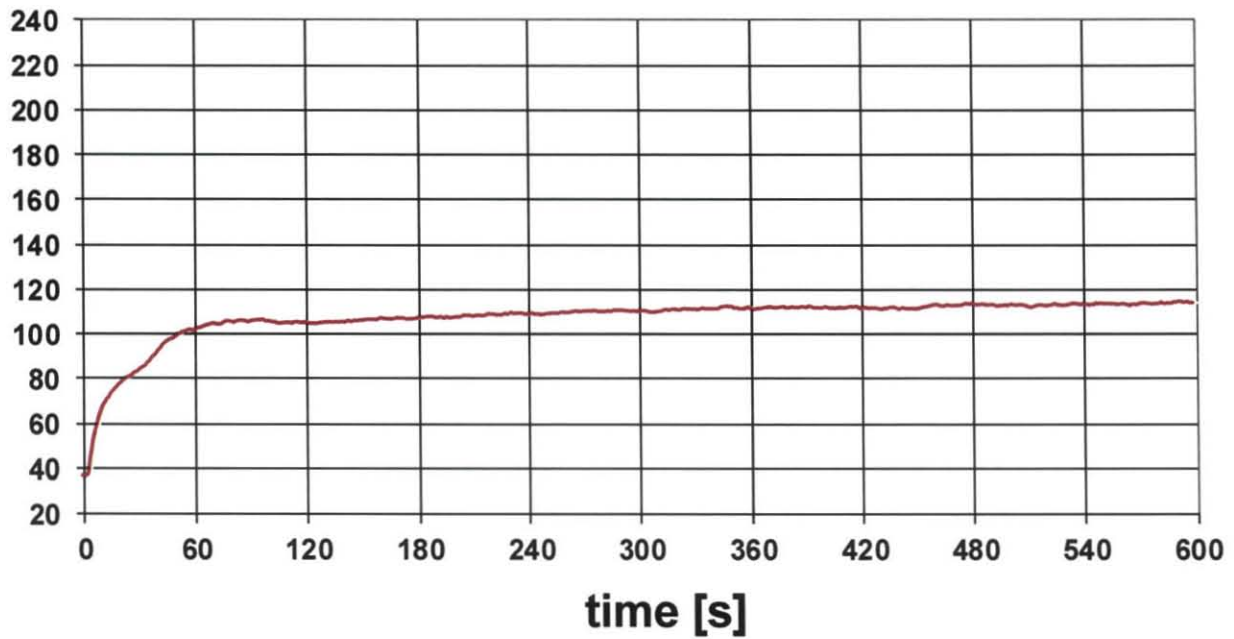
Max. flue gas-temperature = 115 °C  
at [min : s] 09 : 52

Smoke-development [% x min]: 60

Enclosure 4 of test report  
no. 230010740-2 of 08.11.2016

T [°C]

### Average flue gas-temperature



RD [%]

### Smoke-development

