

Test report No. 210358

for applying of a required “Verwendbarkeitsnachweis”
issued 08.06.2021

Applicant:

The iCGROUP
Groendreef 35
9880 Aalter

Producer / supplier

Nekoosa Holdings
841 Market str. Nekoosa
WI 54457
United States of America

Date of order:

03.05.2021

Date of sampling:

*no official sampling of the specimen by a representative
of Warringtonfire Frankfurt GmbH*

Date of arrival:

07.05.2021

Date of test:

01.06.2021

Order

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

Description / designation of the test object

Product name:

TRIFECTA

Description of the relevant test procedure

DIN 4102 part 1 (Mai 1998)

DIN 4102-16 (January 2021)

This test report does not replace the required „Verwendbarkeitsnachweis“. It is only used for issuing the “Verwendbarkeitsnachweis”.

1. Description of the test material

1.1 Details of the customer:

Product name: **TRIFECTA**

Face to be tested: side with the film

Product description:

Main Components = Calendered Vinyl, universal removable adhesive.

Thickness = 150 micron

Grossweight = 265-270 gsm (410-420 gsm carrier included)

Color = white

Intended end use of product:

- one step floor graphics
- wall graphics
- window signage
- social distancing floor graphics
- counter mats
- posters
- directional signage
- point of purchase signage

1.2 By Warringtonfire Frankfurt GmbH determined values:

Material: Film pattern self-adhesive

Colour: white

thickness: approx. 0.36 mm

square weight: 400 g/m²

Test base: steel sheet 1 mm

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

2. Test results

2.1 Brandschachtprüfung according to DIN 4102-1

Sample A: Material tested in production direction

Sample B: Material tested in production direction

Sample C: Material tested in production direction

Test results of the Brandschacht tests part 1						
line no.		Measurements test sample				
			A	B	C	
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	60	60	60	
		min : s	01:14	01:17	01:09	
3	<u>ascertainments on the front side</u> Flaming/glowing time ¹⁾	min : s	00:10	00:11	00:13	
4	<u>melting / burning through</u> time ¹⁾	min : s	no	no	no	
5	<u>ascertainments on the back side</u> Flaming/glowing time ¹⁾	min : s	no	no	no	
		min : s	no	no	no	
6	<u>discolouring</u> time ¹⁾	min : s	no	no	no	
7	<u>burning droplets</u> begin ¹⁾	min : s	no	no	no	
8	extent					
9	occasional dropping of material					
10	<u>separating from burning sample parts</u> begin ¹⁾	min : s	no	no	no	
11	occasional separating parts					
12	constant separating parts					
13	<u>duration of burning on the sieve tray (max.)</u>	min : s	no	no	no	
14	<u>influence on the burner flame by dropping of / separating material</u> time ¹⁾	min : s	no	no	no	
		min : s	no	no	no	
15	<u>earlier end of test</u> end of the fire scenario on the sample ¹⁾	min : s	no	no	no	
16	<u>time of a possible resulted test stop</u> ¹⁾	min : s				

¹⁾ time from start of test

Test results of the Brandschacht tests part 2						
line no.		Measurements test sample				
			A	B		
17	<u>flaming after end of test</u> duration	min : s	no	no	no	
18	number of sample		no	no	no	
19	front side of sample		no	no	no	
20	backside of sample		no	no	no	
21	flame length	cm	no	no	--/--	
22	<u>glowing after end of test</u> duration	min : s	--/--	--/--	no	
23	number of sample		no	no	no	
	place of occurrence		no	no	no	
24	lower sample part		no	no	no	
25	upper sample part		no	no	no	
26	front side of sample		no	no	no	
27	backside of sample		no	no	no	
28	<u>smoke density</u> < 400 % x min		16	18	16	
29	> 440 % x min					
30	<u>diagram in annex no.</u>		1	2	2	
31	<u>residual length</u> single results	cm	41 / 41 39 / 42	33 / 42 42 / 40	41 / 42 41 / 37	
32	average of the single results	cm	40	39	40	
33	photo of the sample on page		5	5	5	
34	<u>smoke temperature</u> max. of the average results	°C min : s	118	115	114	
35	time ¹⁾		08:45	10:00	07:31	
36	diagram in annex no.		1	2	3	

¹⁾ time from start of test

Remarks: none.

Appearance of the specimen after the test:

sample A



sample B



sample C



2.3 Normal flammability test according to DIN 4102-1

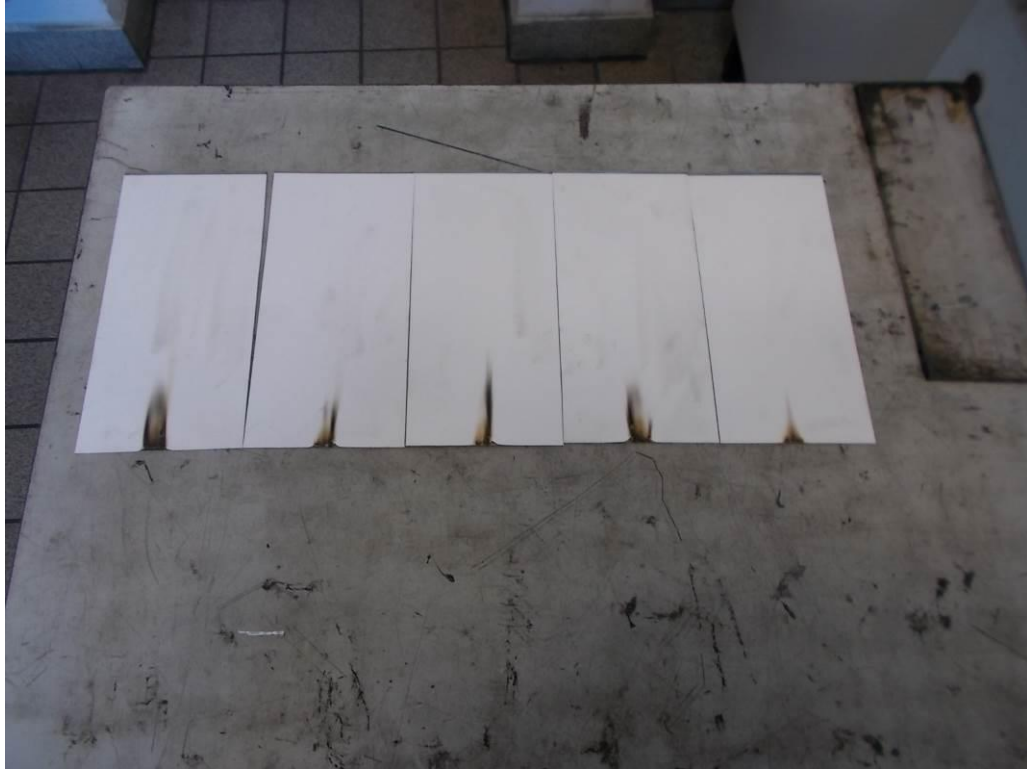
Test with edge ignition without deposit
Flame application on: lower sample edge
Edge ignition

length direction:

Sample-no.	1	2	3	4	5
Time from start of test					
Ignition point [s]	1	1	1	1	1
Reaching the measuring mark within 20 seconds	no	no	no	no	no
Self-extinguishing of the flame [s]	15	15	15	15	15
Max. flame height [mm]	20	20	20	20	20
Time [s]	3	3	3	3	3
End of afterflaming [s]	-	-	-	-	-
End of afterglowing [s]	-	-	-	-	-
Flames extinguished after [s]	-	-	-	-	-
Smoke development (visual impression) ^{low / moderate / strong}	low smoke development				
Separating from burning material	no	no	no	no	no
Time [s]	-	-	-	-	-

Remarks: none

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 note

The fire test result is only valid for the material described in chapter one in the tested colour, surface weight and thickness, on non-combustible substrates of class A1 according to DIN EN 13501-1.

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 does not replace the required „Verwendbarkeitsnachweis“. It is only used for issuing the “Verwendbarkeitsnachweis”.

Frankfurt, the 08th June 2021



H. Anders
Tester in Charge



P. Scheinkönig
Prüfstellenleiter Bau-PVO



This Test report is valid until 30.05.2026

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

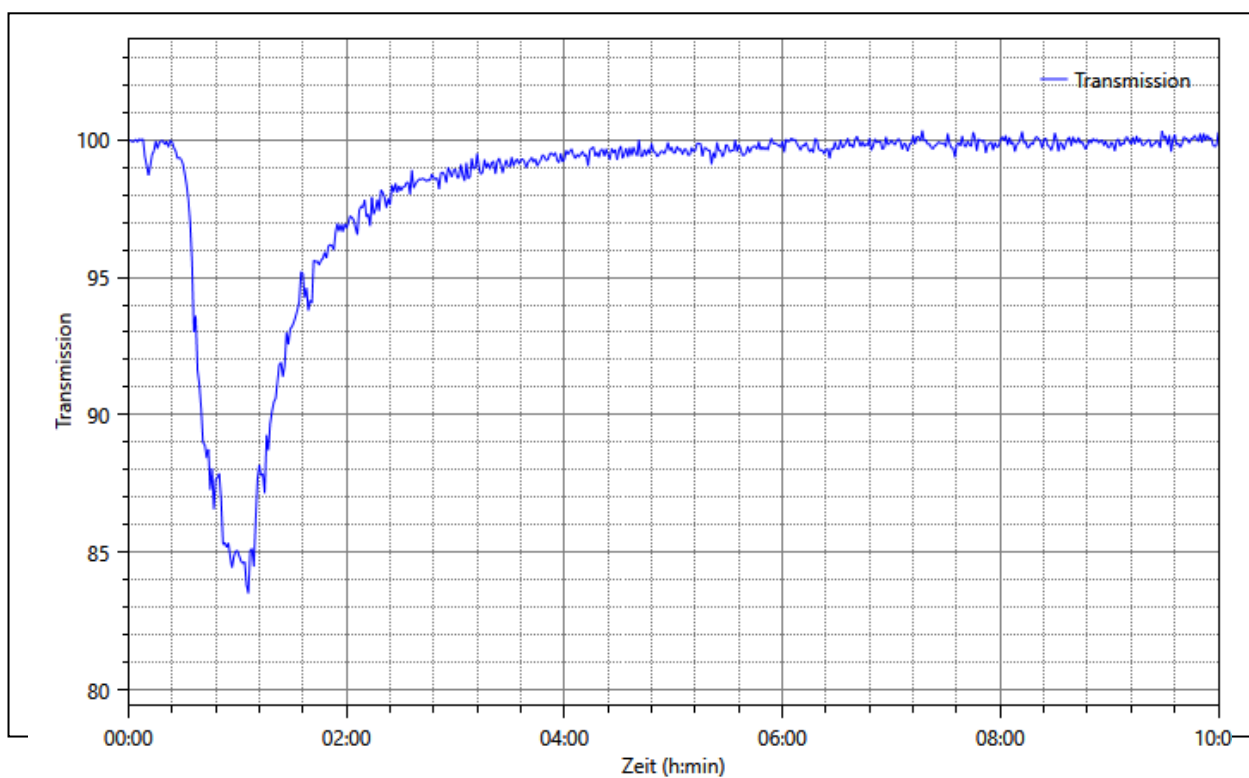
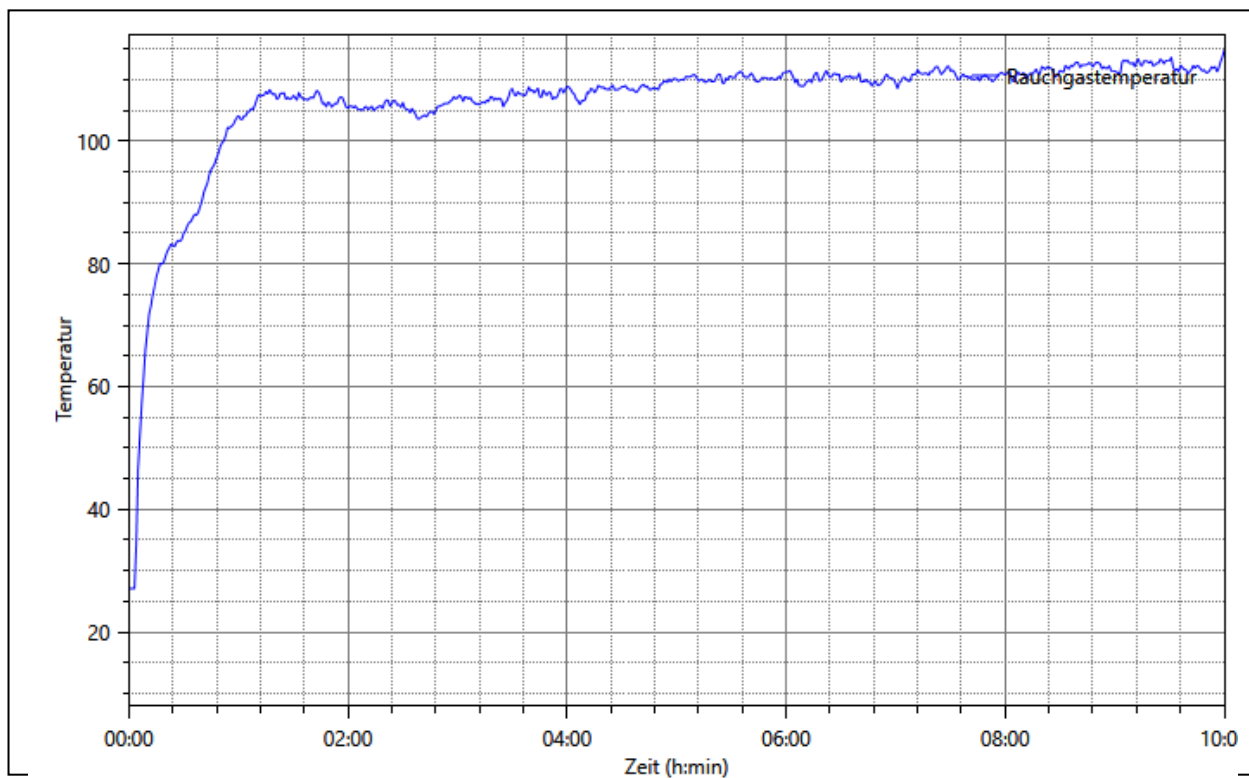
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This test report is a translation of the German version 210358 (issued 08.06.2021). In case of doubt only the German version is valid

This test report contains 8 pages and 3 annexes.

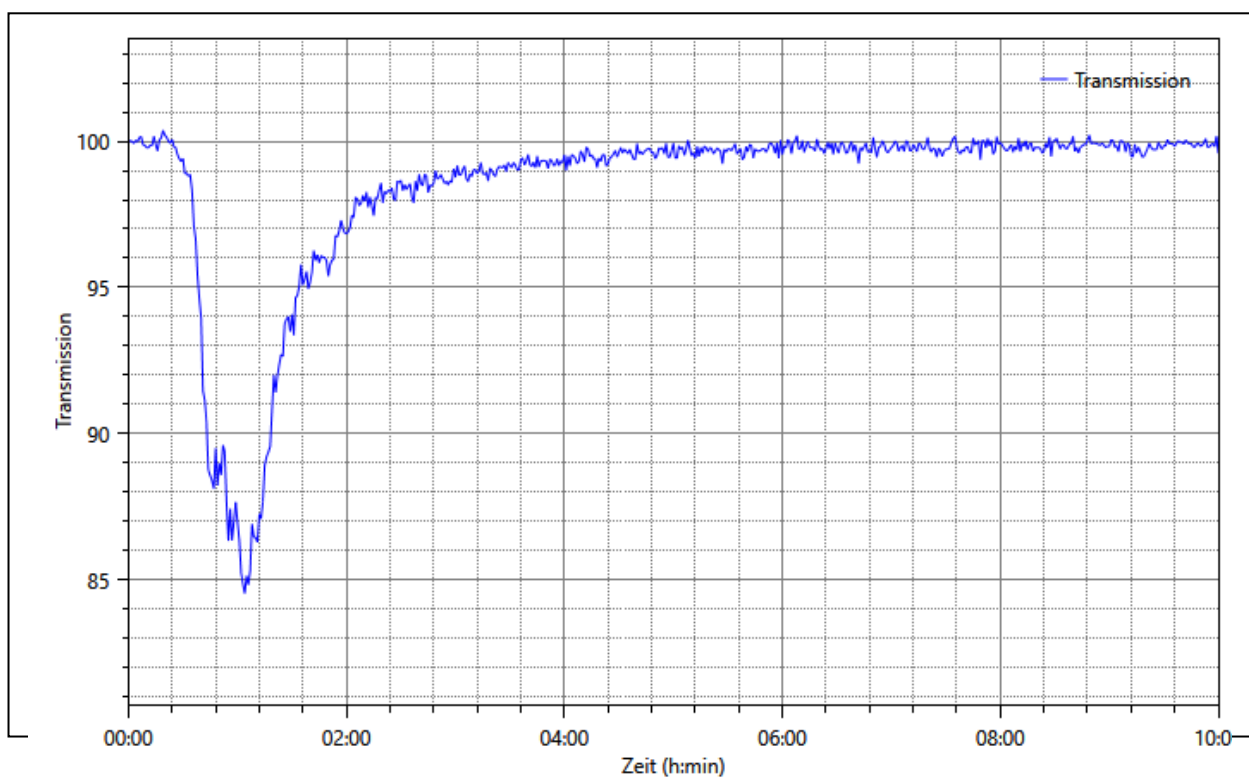
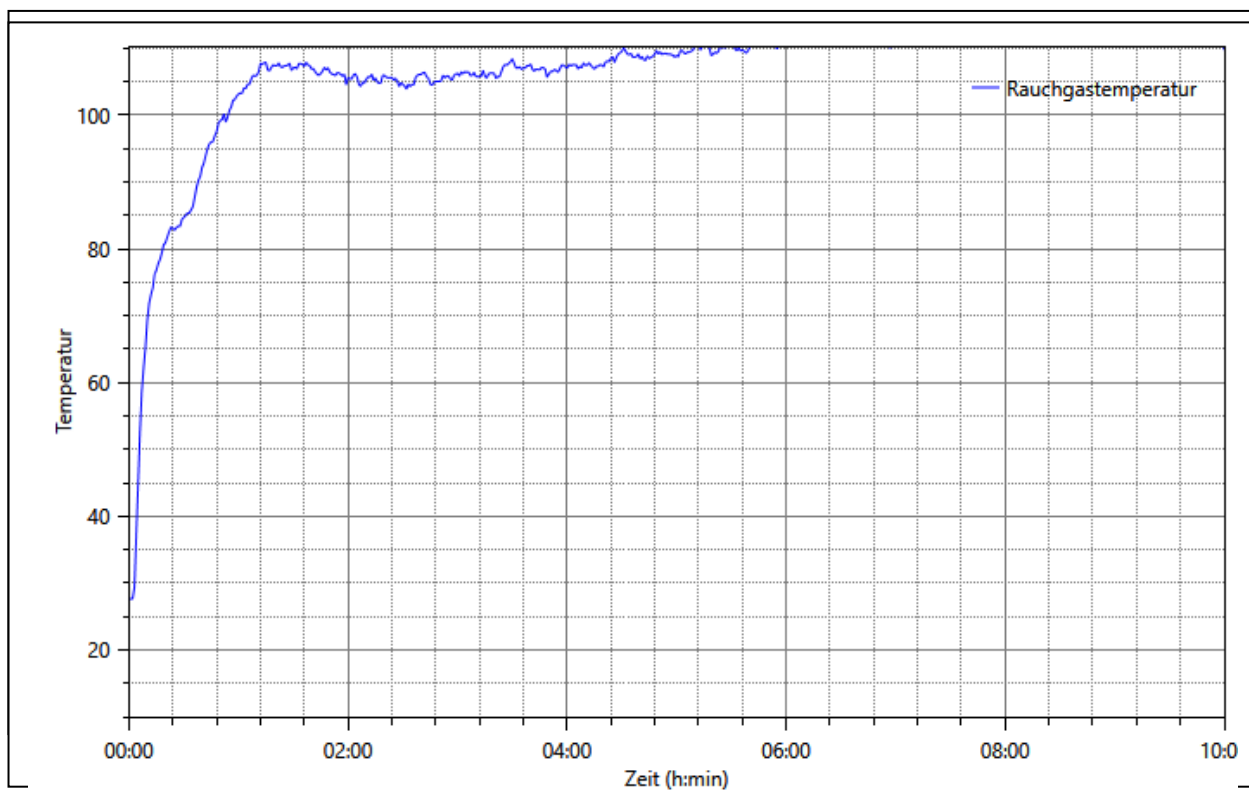
Annex 1 to the Test report No. 210358 issued 08.06.2021

Sample A:



Annex 2 to the Test report No. 210358 issued 08.06.2021

Sample B:



Annex 3 to the Test report No. 210358 issued 08.06.2021

Sample C:

