Prüfinstitut Hoch

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www.reaction-to-fire.de



Test laboratory for the fire behavior of building materials, Dipl.-Ing. (FH) Andreas Hoch Testing, supervising and certifying body, authorized by the building supervision authority

TEST REPORT PZ-Hoch-200972-2

for the proof of Fire behaviour according to DIN 4102, part 1 Translation of the German test report – no guarantee for translation of technical terms

company

Heytex Bramsche GmbH

Heywinkelstraße 1 D-49565 Bramsche

description of samples

polyester fabric, coated on both sides with PVC

colour: white

name of the material

"H6006 Backlit lighteco B1/M2"

sampling

by the company itself

content of request

Proof of flammability to classify building materials to class B1

"schwerentflammbar" according to DIN 4102, part 1

validity of test report

30.09.2025

result

The examined product meets the requirements of class B1 for "schwerentflammbare" (hardly flammable) building materials according to DIN 4102, part 1 (May 1998), suspended freely or with distance of >40 mm to same or other plain materials.

This test report includes 4 pages and 4 enclosures.

Remark: If the above mentioned building material is not used as product according to MBO § 2, Abs. 9, Ziffer1, there is no need for a general building supervisory test report.

This test report is not valid if the examined building material is used as product in the meaning of state building prescriptions (MBO § 17, Abs. 3).

This test report does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:

"allgemeine bauaufsichtliche Zulassung" (general building inspectorate approval) or by

"allgemeines bauaufsichtliches Prüfzeugnis" (general building inspectorate certificate) or by "Zustimmung im Einzelfall" (exceptional approval)

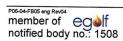
This test report can underlie building supervisory procedures

for regular building products for the prescribed proofs of conformity

for non-regular building products for the needed proofs of applicability.

This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.







1. Description of test material in condition as delivered

PN 32032: "H6006 Backlit lighteco B1/M2"

colour: white

polyester fabric, coated on both sides with PVC

side B: structured surface

characteristic values determined by the test laboratory:

area weight: about 464 g/m²

thickness: about 0,38 mm

The testing laboratory is not provided with further details concerning composition of the tested building materials. Samples are deposited.

2. Preparation of samples

The samples were kept in climate chamber 23/50 until they reached constant weight.

3. Arrangement of samples

mounting: freely suspended

#3924:

flaming side A in warp direction

#3925:

flaming side B in warp direction

#3926:

flaming side B in weft direction

4. <u>Date of test</u> CW 42 in 2020

5. Results The test has been examined according to DIN 4102 (Mai 1998)

Ġ.	Measurement	Resu	cimen	Dim.		
line no.	Test number	#3924	#3925	#3926		
⊩i⊑	flaming direction / side	warp / A	warp / B	weft / B		
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1		
2 3	Maximum flame height above bottom edge of the specimen Time 1)	50 0:18	60 0:09	50 0:08		cm min:s
4	Burn through / melting Time 1)	0:08	0:08	0:07		min:s
5	Observations on the back side of the specimen Flames / Glowing Time ¹⁾ Change of colour Time ¹⁾	 .l. .l.	.J. .J.	 .l. 	.J. .J. .J. .J.	min:s
7 8 9	Falling of burning droplets Start 1) Extent sporadic falling of burning droplets 2) continuous falling of burning droplets 2)	.J. 	.J. 	.J. 	.J. .J. .J. .J.	min:s
10 11 12	Falling of burning droplets Start 1) Extent sporadic falling of burning droplets 2)	X 0:19/0:30 X 	X 0:45/0:51 X 	X 0:19 X 	.1. .1. .1.	min:s
13	After flame time at the bottom of the	0:02/0:12	0:05/0:09	0:03	.J.	min:s

o.	Measurement	Res	ult with the	tested spe	cimen	Dim.						
ine no.	Test number	#3924	#3925	#3926								
	flaming direction / side	warp / A	warp / B	weft / B								
	Impairment of the burner by dropping											
14	or falling material: Time 1)	. <i>J</i> .	,		,							
	Premature end of test	./.	./.	.J.	./.	min:s						
15	Final occurrence of burning at the specimen 1)	./.	./.	./.	./.	min:s						
16	Time of eventually end of test 1)	./.	./.	./.	. <i>I</i> .	min:s						
4-	After flame after end of test											
17 18	Time ¹⁾ Number of specimen	./.	./.	./.	./.	min:s						
19	Front side of specimen 2)	./. ./.	./. ./.	./. ./.	.J. .J.							
20	Back side of specimen 2)	./.	. <i>J</i> .	./. ./.	./. ./.							
21	flame length	./.	./.	./.	./.	cm						
	Afterglow after end of test	./.	./.	./.	./.							
22 23	Time 1) Number of specimen	./. ./.	./.	./.	./.	min:s						
20	Place of appearance	./. ./.	./. ./.	./. ./.	./. ./.							
24	Lower half of the specimen 2)	./.	./. ./.	./. ./.	./. ./.							
25	Upper half of the specimen 2)	./.	./.	./.	./.							
26 27	Front side of specimen ²⁾ Back side of specimen ²⁾	./.	.J.	./.	./.							
21		./.	./.	./.	./.							
28	<u>Density of smoke</u> ≤ 400 % * min	32	29	21		% * min						
29	> 400 % * min ⁴⁾	./.	./.	./.	./.	% * min						
30	Diagram: encl. no.	1	2	3		/						
	Residual lengths: individual value ³⁾											
	Specimen 1	61	59	61		cm						
31	Specimen 2	59 ·	56	64		cm						
	Specimen 3 Specimen 4		58 64	63 64		cm						
32	Average value, individual test 3)	59	59	63		cm						
33	Photo of specimen in enclosure no.	1	2	3								
	Flue gas temperature	109	113	113		°C						
35	Maximum of average value Time 1)	09:48	09:27	10:00		min:s						
36	Diagram: encl. no.	1	2	3								
37	Remarks: - none -		r)									
7	indication of times: from the begin of testing procedure 2) chocked off if applicable											

indication of times: from the begin of testing procedure ²⁾ checked off if applicable indication of carrier/foam layer separated in case of fire-proofing agents very strong development of smoke

6. Explanations concerning the testing procedure

There were no additional tests proceeded because of the residual length of more than 45 cm.

7. Summary of results and additional establishments to Fire Behaviour

o.	measurement Result with the tested specimen								
lineno.	test-no.	#3924 warp / A	#3925 warp / B	#3926 weft / B		dimen			
1	residual length	59	59	63		cm			
2	max. smoke temperature	109	113	113		°C			
3	density of smoke - integral	32	29	21		%min			
4	remarks: -none-				100 - 100				

According to DIN 4102, part 1, "schwerentflammbare" (hardly flammable) building materials must meet the requirements of class B2.

Pursuant to additional tests in the ignitability apparatus this can be determined (appendix 4).

8. Special remarks

- This report is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or grounds etc. the burning behaviour may differ.
- This test report is not valid for the exposure to outdoor climate conditions.
- This test report is not valid, as soon as the fabric is used as a building product in the sense of the "Landesbauordnungen" (state building requirements, MBO § 17, par. 3).
- This test report is no substitute for a General Building Inspectorate Certificate.
- This test report is granted without prejudice to the rights of third parties, in particular private proprietary rights.
- For legal interests only the German original version is relevant.
- In General Building Inspectorates procedures this test report can be based for
 - o regular building materials for the required proof of accordance
 - o for not regular building materials for the required proof of applicability

9. Validity

This test report is valid until the mentioned date on page 1. The test report becomes invalid in case the standards on which the tests are based are changed.

Fladungen, 15.10.2020

clerk in charge:

(Dipl.-Ing. (FH) Jürgen Hammer)

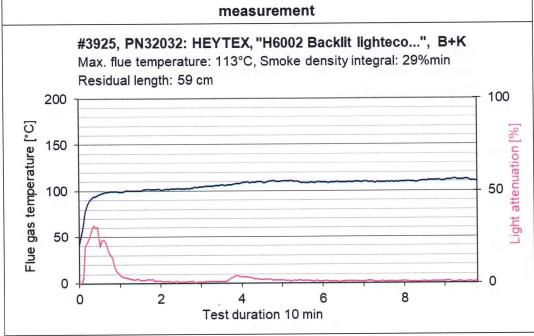
Head of the test laboratory:

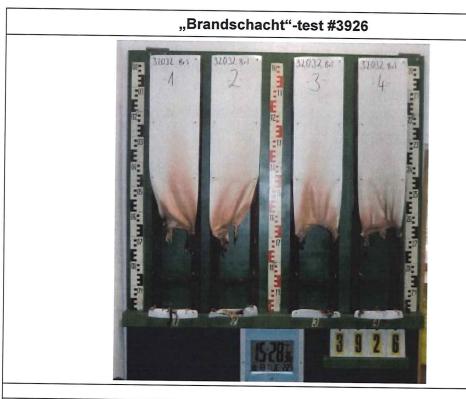
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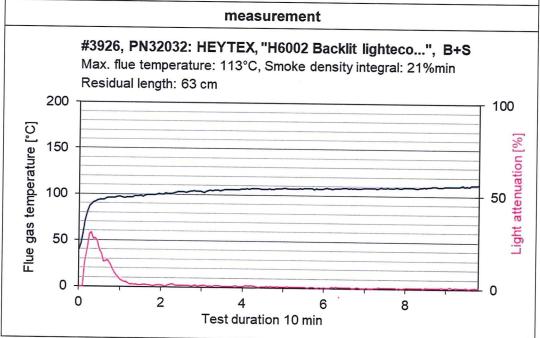


measurement #3924, PN32032: HEYTEX, "H6006 Backlit lighteco...", A+K Max. flue temperature: 109°C, Smoke density integral: 32%min Residual length: 59 cm 200 100 Flue gas temperature [°C] Light attenuation [%] 150 100 50 50 0 0 2 8 Test duration 10 min









Test for normal flammability classifying B2 according to DIN 4102

- Description of test material in condition as delivered look at page 2
- 2. Preparation of samples

Out of the material there have been cut samples for the ignitability apparatus. The samples were kept in a climate 23/50 until they reached constant weight.

3. Arrangement of samples -freely suspended-

Flaming in warp and weft direction / Flaming side A and side B

4. Date of test

CW 42 in 2020

5. Results

PN 32032: flaming side B in weft	surface-test							0	edge	-test	test						
samples no.	. 1	2	3	4	5	6	1	2	3	4	5	6	- mio				
ignition ¹⁾	4	4	4	4	4		1	_		-			s				
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.	./.	./.		./.	-	1				S				
max. flame height	12	12	12	12	12	-	10	-					cm				
time	15	15	15	15	15	-	15										
self cessation of the flames end of afterflame ¹⁾	17	16	17	21	18	ï	15						s				
end of glowing ¹⁾	18	19	20	22	20		17						s				
flames were extinguished after ¹⁾	./.	./.	./.	./.	./.		./.						s				
smoke development (visual)	moderate moderate																
dropping of burning material during 20 s ¹⁾	:/.	./.	./.	./.	./.		./.						s				
Appearance after test: burned out till max. height 10 cm x width 4 cm																	

PN 32032: additional tests	edge-test							S	urfac	e-tes	t		ے
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Ë
ignition ¹⁾	1	1	1				4	4	4				s
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.			-	.J.	./.	J.				s
max. flame height	9	10	9		-		8	9	8				cm
time	15	15	15		I		15	15	15				
self cessation of the flames end of afterflame ¹⁾	15	15	15				15	15	15				s
end of glowing ¹⁾	16	16	17				16	18	17				s
flames were extinguished after ¹⁾	./.	./.	./.				./.	./.	J.				s
smoke development (visual)	moderate moderate												
dropping of burning material during 20 s ¹⁾	./.	./.	./.				./.	./.	./.				s
Appearance after test: burned out till max. height 10 cm x width 4 cm													

¹⁾ time mentioned from the beginning of the test 2) during 20 Sec

7. Opinion concerning the dropping of burning material

The test for normal flammability shows no burning dripping material.

^{-/-} no appearance -- no information

^{6.} Remarks and explanations to the testing procedure - none -