company

Lerchenweg 1 D-97650 Fladungen Tel.: int – 49 – 9778-7480-200 hoch.fladungen@t-online.de Hoch

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-241579

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

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
validity of test report	30.11.2029
sampling content of request	by the company itself Proof of flammability to classify building materials to class B1 "schwerentflammbar" according to DIN 4102, part 1
name of the material	"SYRACUSE"
description of samples	fabric consisting of 100% Polyester FR, with "glossy yarn" – coating on one side colour: white / silver
company	INDETEX nv/sa Rue du Mont Gallois 58 B-7700 Mouscron

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

with distance of >40 mm to same or other plain materials.

- "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 This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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 40341: "SYRACUSE" colour: white / silver -fabric consisting of 100% Polyester FR, with "glossy yarn"-coating on one side

side A: white / side B: silver, glossy

characteristic values determined by the test laboratory:

area weight: about 250g/m² thickness: about 0,42 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. <u>Arrangement of samples</u> mounting: freely suspended

#8562	flaming side A in warp direction
#8563	flaming side B in warp direction
#8564	flaming side A in weft direction

4. Date of test CW 49 in 2024

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

	Measurement	Re	sult with the	ne tested s	pecime	ņ	Dim.
on e	Test number	#8562	#8563	#8564			
line	flamed direction flamed side	warp A	warp B	weft A			
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1	1			
2 3	<u>Maximum flame</u> height above bottom edge of the specimen Time ¹⁾	30 0:02	30 0:02	30 0:02	*		cm min:s
4	Burn through / melting Time ¹⁾	0:05	0:03	0:04			min:s
5	Observations on the back side of the specimen Flames / Glowing Time ¹⁾ Change of color Time ¹⁾	./. ./.		./. ./.	./. ./. ./. ./.	./. ./. ./. ./.	min:s min:s
7	<u>Falling of burning droplets</u> Start ¹⁾ <u>Extent</u> sporatic falling of burning droplets ²⁾	./.	./.	./.	./. ./. ./.	./. ./. ./.	min:s
9	continuous falling of burning droplets ²⁾				./.	./.	min:s
10	Falling of burning droplets Start ¹⁾	./.	./.	./.	./.	./.	min:s
11 12	Extent sporatic falling of burning droplets ²⁾ continuous falling of burning droplets ²⁾				./. ./.	./. ./.	
13	Afterflame time at the bottom of the sieve (max.)	./.	./.	./.	./.	./.	min:s

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	Measurement	Re	sult with th	ne tested s	pecimer	1	Dim.
no.	Test number	#8562	#8563	#8564			
line	flamed direction flamed side	warp A	warp B	weft A			
14	Impairment of the burner by dropping or falling material: Time ¹⁾	./.	./.	./.	./.	./.	min:s
15	Final occurance of burning at the specimen ¹⁾	0:40	0:35	0:25	./.	./.	min:s
16	Time of eventually end of test ¹⁾	./.	./	./.	./.	./.	min:s
17 18 19 20 21	Afterflame after end of test Time ¹⁾ Number of specimen Front side of specimen ²⁾ Back side of specimen ²⁾ flame length	. <i>I.</i> . <i>I.</i> . <i>I.</i> . <i>I.</i>	.I. .I. .I. .I.	J. J. J. J.	.I. .I. .I. .I. .J.	./. ./. ./. ./.	min:s
22 23 24 25 26 27	Afterglow after end of test Time ¹⁾ Number of specimen <u>Place of appearance</u> Lower half of the specimen ²⁾ Upper half of the specimen ²⁾ Front side of specimen ²⁾ Back side of specimen ²⁾	J. J. J. J. J. J. J. J. J.		J. J. J. J. J. J. J. J. J.	J. J. J. J. J. J. J. J. J.	.1. .1. .1. .1. .1. .1. .1. .1. .1.	min:s
28 29 30	<u>Density of smoke</u> ≤ 400 % * min > 400 % * min ⁴⁾ Diagram: encl. no.	2 ./. 1	1 ./. 2	1 ./. 3	 ./.	 ./.	% * min % * min
31	Residual lengths: individual value ³⁾ Specimen 1 Specimen 2 Specimen 3 Specimen 4	60 65 68 76	66 74 68 68	58 62 59 70		 	cm cm cm cm
32	Average value, individual test 3)	67	69	62			
33	Photo of specimen in enclosure no.	1	2	3			
34 35	Flue gas temperature Maximum of average value Time ¹⁾	116 09:11	118 09:58	122 09:27			°C min:s
36	Diagram: encl. no.	1	2	3			
37	Remarks: - none -						

¹⁾ indication of times: from the begin of testing procedure
 ²⁾ checked off if applicable
 ³⁾ indication of carrier/foam layer separated in case of fire-proofing agents

⁴⁾ very strong development of smoke



6. Explanations concerning the testing procedure

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

7. Summary of results and additional establishments to Fire Behaviour

ਜ਼ _ measurement		Result with the tested specimen								
linen o.	test-no.	#8562	#8563	#8564			dime nsio n			
	flamed direction flamed side	warp A	warp B	weft A						
1	residual length	67	69	62			cm			
2	max. smoke temperature	116	118	122			°C			
3	density of smoke - integral	2	1	1			%min			
4	remarks: none									

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, washing or cleaning with chemicals.
- 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, im 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
 - regular building materials for the required proof of accordance
 for not required building materials for the required proof of applicable
 - \circ $\,$ 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.

JEERWACHUNGS. Fladungen, 04.12.2024 clerk in charge (Dipl.-Ing.(FH) Jürgen Hammer)

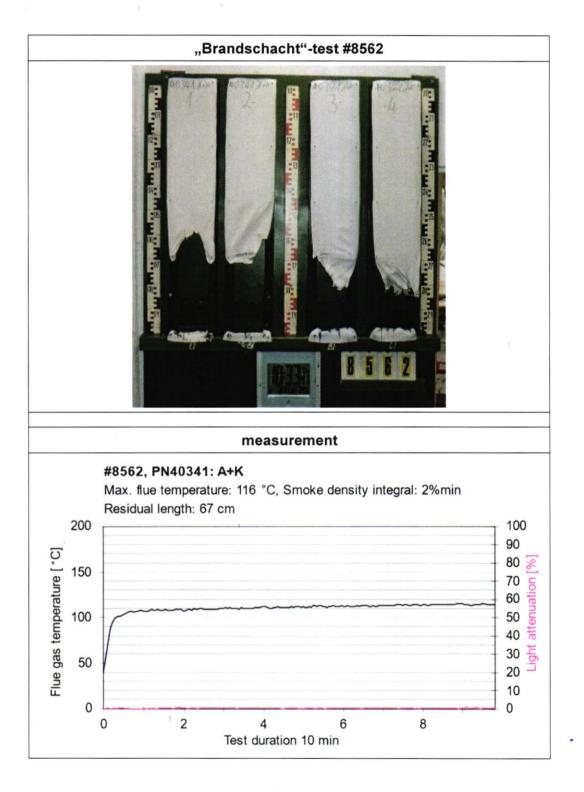
Head of the test laboratory:

(Dipl.-Ing.(FH) Andreas Hoch)

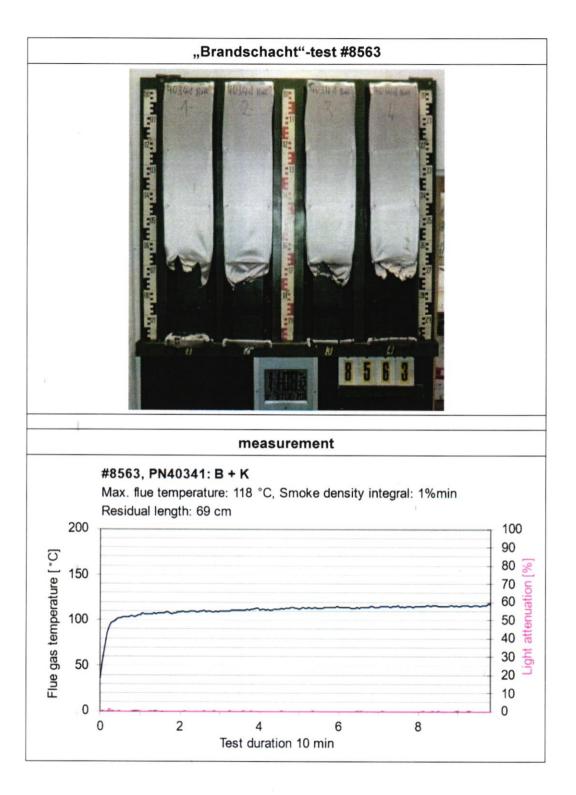
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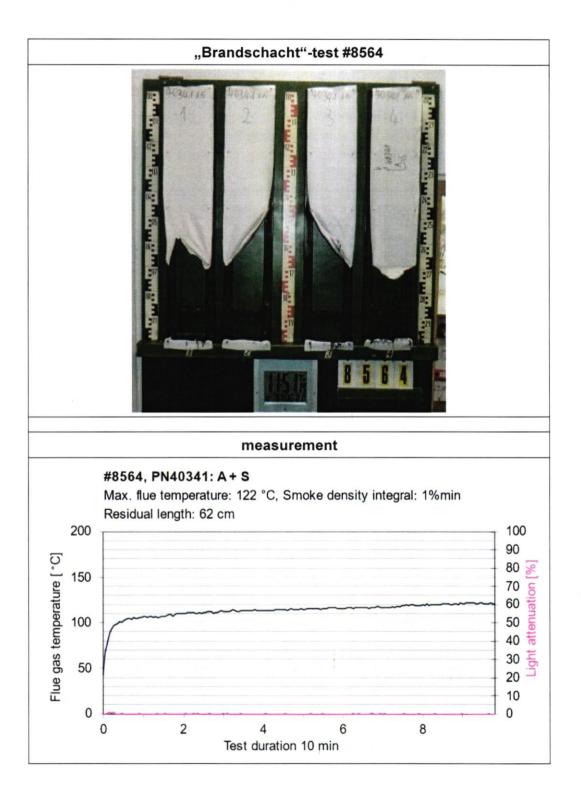








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Test for normal flammability classifying B2 according to DIN 4102

- 1. 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 / side A and side B

- 4. Date of test CW 48 in 2024
- 5. Results

PN 40341: flaming side A in warp direction	edge-test						surface-test						Dim
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	ā
ignition ¹⁾	1	1	1	1	1		2						s
reaching the mark of measurement ¹⁾²⁾	-/-	-/-	-/-	-/-	-/-		-/-						s
max. flame height	7	5	5	5	7		3						cm
time	15	5	5	5	10		4						
self cessation of the flames end of afterflame ¹⁾	15	6	8	7	10		6						s
end of glowing ¹⁾	-/-	-/-	-/-	-/-	-/-		-/-						s
flames were extinguished after ¹⁾	_/_	_/_	-/-	-/-	-/-		-/-						
smoke development (visual)	moderate little												
dropping of burning material during 20 s ¹⁾	-/-	-/-	-/-	-/-	-/-		-/-						s
Appearance after test: burned out till m	ax. hei	ght 9 d	cm x v	vidth 4	4 cm								
PN 40341: additional tests		(edge-	test				s	urfac	e-tes	st		
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Dim
arrangement of samples side / direction	B/K	A/S	B/S				B/K	A/S	B/S				
ignition ¹⁾	1	1	1				2	2	2				s
reaching the mark of measurement ¹⁾²⁾	-/-	-/-	-/-				_/_	-/-	-/-				s
max. flame height	5	5	5				5	3	3				cm
time							4.5	5	4				
	15	15	15				15	5	4				
self cessation of the flames end of afterflame ¹⁾	15 15	15 15	15 15				15 24	7	6				s
self cessation of the flames													s s
self cessation of the flames end of afterflame ¹⁾	15	15	15				24	7	6				
self cessation of the flames end of afterflame ¹⁾ end of glowing ¹⁾	15 _/-	15 -/- -/-	15 -/-				24 _/-	7 -/-	6 _/-				s

¹⁾ time mentioned from the beginning of the test ²⁾ during 20 Sec -/- no appearance -- no information K: warp / S: weft

6. Remarks and explanations to the testing procedure - none -

Appearance after test: burned out till max. height 9cm x width 4cm

7. Opinion concerning the dropping of burning material

The test for normal flammability shows no burning dripping material.