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

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

www.reaction-to-fire.de

TEST REPORT PZ-Hoch-230428

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	SAINT CLAIR TEXTILES 415, avenue de Savoie
	F-38110 Saint Clair de la Tour
description of samples	polyester fabric coated with polymers (acrylic and polyurethane) colour: white
name of the material	"JET UP"
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	31.03.2028
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 3 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 Pr
 üfzeugnis" (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This test report must not be published and copied without preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.



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1. Description of test material in condition as delivered

PN 36835: "JET UP" colour: white

-polyester fabric coated with polymers (acrylic and polyurethane)-There is no difference between side A and side B.

characteristic values determined by the test laboratory:

area weight: about 267g/m² thickness: about 0,33mm

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

10040	flaming aida A in worn direction
#6318:	flaming side A in warp direction
#6319:	flaming side B in weft direction

4. Date of test CW 14 in 2023

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

	Result with the tested specimen						
line no.	Test number	#6318	#6319				
<u>i</u>	flaming direction / side	warp / A	weft / B				
1	Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1	1	1				
2 3	Maximum flame height above bottom edge of the specimen Time ¹⁾	50 0:08	50 0:09			cm min:s	
4	Burn through / melting Time ¹⁾	0:03	0:03			min:s	
5	Observations on the back side of the specimen Flames / Glowing Time ¹⁾ Change of colour Time ¹⁾			./. ./. ./. ./.	./. ./. ./. ./.	min:s min:s	
7 8 9	Falling of burning dropletsStart 1)Extentsporadic falling of burning droplets 2)continuous falling of burning droplets 2)	./. ./. ./.	./. 	./. ./. ./.	./. ./. ./.	min:s min:s	
10 11 12	Falling of burning dropletsStart 1)Extentsporadic falling of burning droplets 2)continuous falling of burning droplets 2)	./. ./. ./.	./. 	./. ./. ./.	./. ./. ./.	min:s	
	After flame time at the bottom of the sieve (max.)	./.	./.	./.	./.	min:s	



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o.	Measurement	Res	Dim.			
line no.	Test number	#6318	#6319			
<u> </u> :=	flaming direction / side	warp / A	weft / B			
	Impairment of the burner by dropping					
14	or falling material: Time ¹⁾	,	,	,	,	
15	Final occurance of burning at the specimen ¹⁾	./. 2:12	5:39	./.	./.	min:s
16	Time of eventually end of test ¹⁾	./.	./.	./.	./.	min:s
17 18 19 20 21	After flame after end of test Time ¹⁾ Number of specimen Front side of specimen ²⁾ Back side of specimen ²⁾ flame length	.1. .1. .1. .1. .1.	.1. .1. .1. .1. .1.	./. ./. ./. ./.	.1. .1. .1. .1. .1.	min:s cm
22 23	Afterglow after end of test Time ¹⁾ Number of specimen	./. ./. ./.	./. ./. ./.	./. ./. ./.	./. ./. ./.	min:s
24 25	<u>Place of appearance</u> Lower half of the specimen ²⁾	.1. .1. .1. .1. .1.	./. ./. ./. ./.	.1. .1. .1. .1.	./. ./. ./.	
28 29 30	$\frac{\text{Density of smoke}}{\leq 400 \% * \min}$ $> 400 \% * \min^{4)}$ Diagram: encl. no.	17 ./. 1	./. 12 ./. 2	./. ./. ./.	./. _/.	% * min % * min
31	Residual lengths: individual value ³⁾ Specimen 1 Specimen 2 Specimen 3 Specimen 4	64 63 64 63	69 63 62 70			cm cm cm cm
32	Average value, individual test 3)	64	66			
33	Photo of specimen in enclosure no.	1	2			
	<u>Flue gas temperature</u> Maximum of average value	111	118			°C
35	Time ¹⁾	10:00	09:57			min:s
		1	2			
37	Remarks: - none -		2)			

37 Remarks: - none -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.	#6318 warp / A	#6319 weft / B			dimen sion			
1	residual length	64	66			cm			
2	max. smoke temperature	111	118	1		°C			
3	density of smoke - integral	17	12			%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 3).

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
 - 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, 05.04.2023

clerk in charge:

(Dipl.-Ing.(FH) Jürgen Hammer)

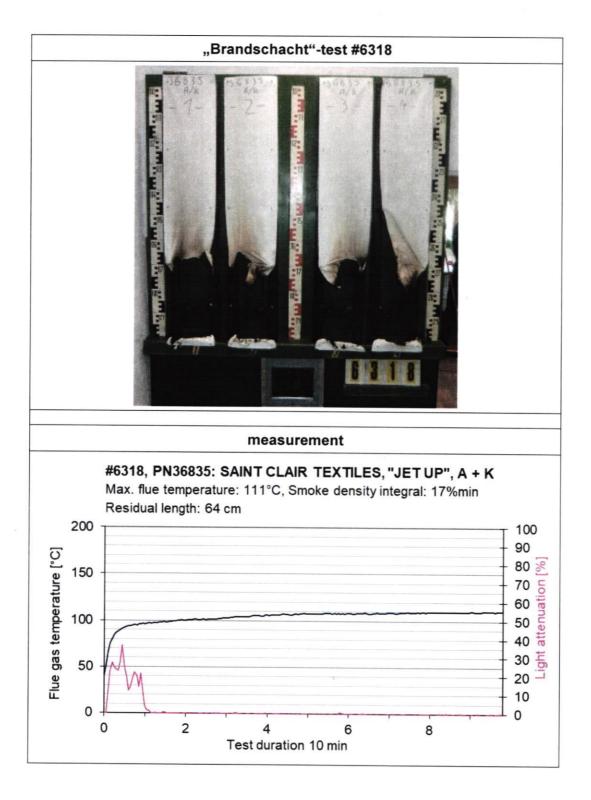


Head of the test laboratory:

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

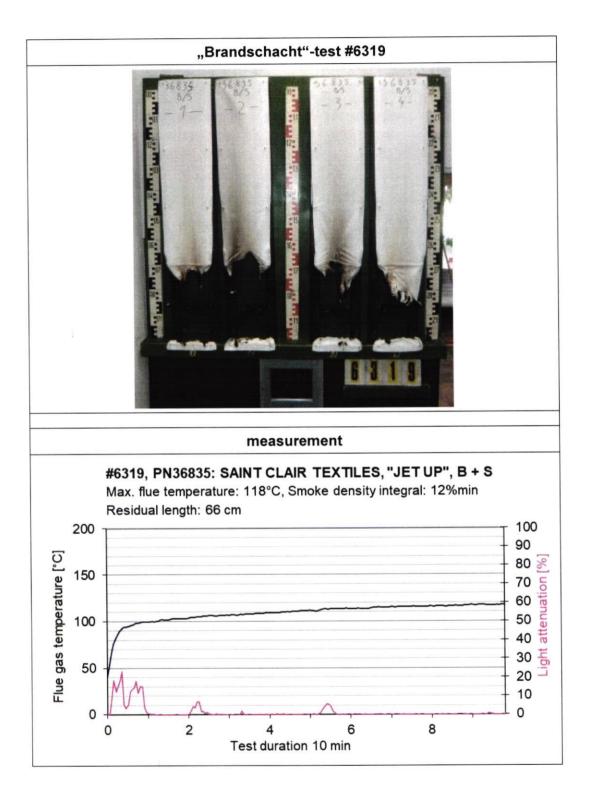


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Test for normal flammability classifying B2 according to DIN 4102

- 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 in weft direction / Flaming side A and side B

- 4. Date of test CW 14 in 2023
- 5. Results

PN 36835:			edge-	test				5	urfac	e_to	et		
flaming side B in weft direction						surface-test					- iei		
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	
ignition ¹⁾	1	1	1	1	1		3						s
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.	./.	./.		./.						s
max. flame height	12	11	10	8	12		12						cm
time	8	7	7	5	7		10						
self cessation of the flames end of afterflame ¹⁾	17	16	8	6	13		15						s
end of glowing ¹⁾	./.	./.	./.	./.	./.		./.						s
flames were extinguished after ¹⁾	./.	./.	./.	./.	./.		./.						s
smoke development (visual)			hear	vy					hea	avy			
dropping of burning material during 20 s ¹⁾	./.	./.	./.	./.	./.		./.						s
Appearance after test: burned out till ma	ax. heig	ght 10	cm x	width	3 cm								1-
PN 36835: additional tests	1	e	edge-	test				SI	urfac	e-tes	st		
samples no.	1	2	3	4	5	6	1	2	3	4	5	6	Di
arrangement of samples side / direction	A/wa	B/wa	A/we				A/wa	B/wa	A/we				
ignition ¹⁾	1	1	1				2	3	2				s
reaching the mark of measurement ¹⁾²⁾	./.	./.	./.				./.	./.	./.				s
max. flame height	3	4	10				10	9	11				cm
time	2	2	10				11	12	10				
self cessation of the flames end of afterflame ¹⁾	3	3	11				14	16	12				s
end of glowing ¹⁾	./.	./.	./.				./.	./.	./.				s
flames were extinguished after ¹⁾	./.	./.	./.				./.	./.	./.				s
smoke development (visual)	heavy					heavy							
	./.	./.	./.				./.	./.	./.	1			-

¹⁾ time mentioned from the beginning of the test²⁾ during 20 Sec -/- no appearance -- no information wa: warp direction / we: weft direction

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

7. Opinion concerning the dropping of burning material

The test for normal flammability shows no burning dripping material.