SYCHTA LABORATORIUM Sp. J.
Laboratorium Badań Palności Materiałów
ul. Ofiar Stutthofu 90
72-010 Police

AB 1501

TEST REPORT

Order no: 83A37515 Signature: SL/Z-548/DIN4102-B1/0700a/2026 Police, 15.05.2026

Test methods:

1. DIN 4102-1:1998-05 Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests.
2. DIN 4102-15:1990-05 Fire behaviour of building materials and building components - Part 15: "Brandschacht"
3. DIN 4102-16:2021-01 Fire behaviour of building materials and building components - Part 16: "Brandschacht" tests
4. DIN 53438-2:1984-06 Testing of combustible materials; response to ignition by a small flame; edge ignition
5. DIN 53438-3:1984-06 Testing of combustible materials; response to ignition by a small flame; surface ignition

Content of request: Testing according to DIN 4102-1:1998-05 (building class B1).

Sponsor: Camira Fabrics
The Watermill, Wheatley Park
WF14 8HE Mirfield, West Yorkshire, United Kingdom

Material: Xtreme

Composition: Flat woven fabric
100% Post-Consumer Recycled Polyester
Light Colour: Apple, HYS096 Batch: 590188
Medium Colour: Tortuga, HYS168 Batch: 584973
Dark Colour: Bonaire, HYS172 Batch: 589577
Nominal thickness: 0,9 mm

Manufacturer/supplier: Camira Fabrics
The Watermill, Wheatley Park
WF14 8HE Mirfield, West Yorkshire, United Kingdom

Assessment: The material fulfils the requirements of the building class B1 according to DIN 4102-1:1998-05.
The decision-making method used: the principle of simple acceptance in accordance with section 4.2 of the ILAC-G8:09/2019 guidelines.

Validity of test report: 15.05.2031

Report applies only to the sample tested and is not necessarily indicative of the qualities of apparently identical or similar products.

Content of test report: eight pages with signature and numbers.

1. Test results class B1 according to DIN 4102-15 and DIN 4102-16 – Brandschacht tests

Table 1.1. Results for tested material

Name of measured quantity	Unit	Specimen				Requirement
		1	2	3	4	
No. test arrangement according to DIN 4102-15	-	1	1	1	1	
Specimen thickness	mm	1,0	1,0	1,0	1,0	
Maximum flame height	cm	30	30	30	30	
Time	s	6	5	4	5	
Flaming time	s	33	40	34	24	
Ignition sample backside	yes/no	no	no	no	no	
Time	s	-	-	-	-	
Burning droplets	yes/no	yes	yes	yes	yes	
Duration falling of burning droplets	s	43	70	71	143	
- sporadic falling of burning droplets	yes/no	yes	yes	yes	yes	
- continuous falling of burning droplets	yes/no	no	no	no	no	
Burning separating sample parts	yes/no	no	no	no	no	
Duration falling of burning parts	s	-	-	-	-	
- sporadic falling of burning parts	yes/no	no	no	no	no	
- continuous falling of burning droplets	yes/no	no	no	no	no	
Duration of burning on the sieve tray	s	-	-	-	-	
Residual range						
1	cm	67	68	72	70	>0
2	cm	63	68	64	67	
3	cm	65	68	63	67	
4	cm	66	68	70	69	
Average value of the residual range	cm	65	68	67	68	≥15
Maximum flue gas temperature	°C	149	150	148	144	≤200
Time	s	595	595	600	600	
Duration of burning after end of test	s	0	0	0	0	
Maximum light attenuation	%	1,6	1,7	2,0	1,8	
Integrated smoke obscuration	min• %	1	1	1	1	≤400
Impairment of the burner flames by falling particles or droplets	yes/no	no	no	no	no	
Time of the appearance of falls for the burner	s	-	-	-	-	
Premature end of test	yes/no	no	no	no	no	
Time	s	-	-	-	-	

Remark 1:
According to DIN 4102-16: 2021-01, Clause 5.2. Colour various were selected specimens in black - Dark Colour: Bonaire, HYS172 Batch: 589577, length direction (specimen 1), black - Dark Colour: Bonaire, HYS172 Batch: 589577, cross direction (specimen 2), red - Medium Colour: Tortuga, HYS168 Batch: 584973 (specimen 3) and light green - Light Colour: Apple, HYS096 Batch: 590188 (specimen 4). The difference between the four means of measured residual lengths is no greater than 5 cm (respectively 65 cm, 68 cm, 67 cm, 68 cm) and the difference between the four mean flue gas temperatures shall be no greater than 10 K (respectively 149 °C, 150 °C, 148 °C, 144 °C). Total number of tests: four.

Remark 2: Because of the residual length of > 45 cm in one test, the number of tests was reduced, according to Clause 6.2 b) DIN 4102-16:2021-01.

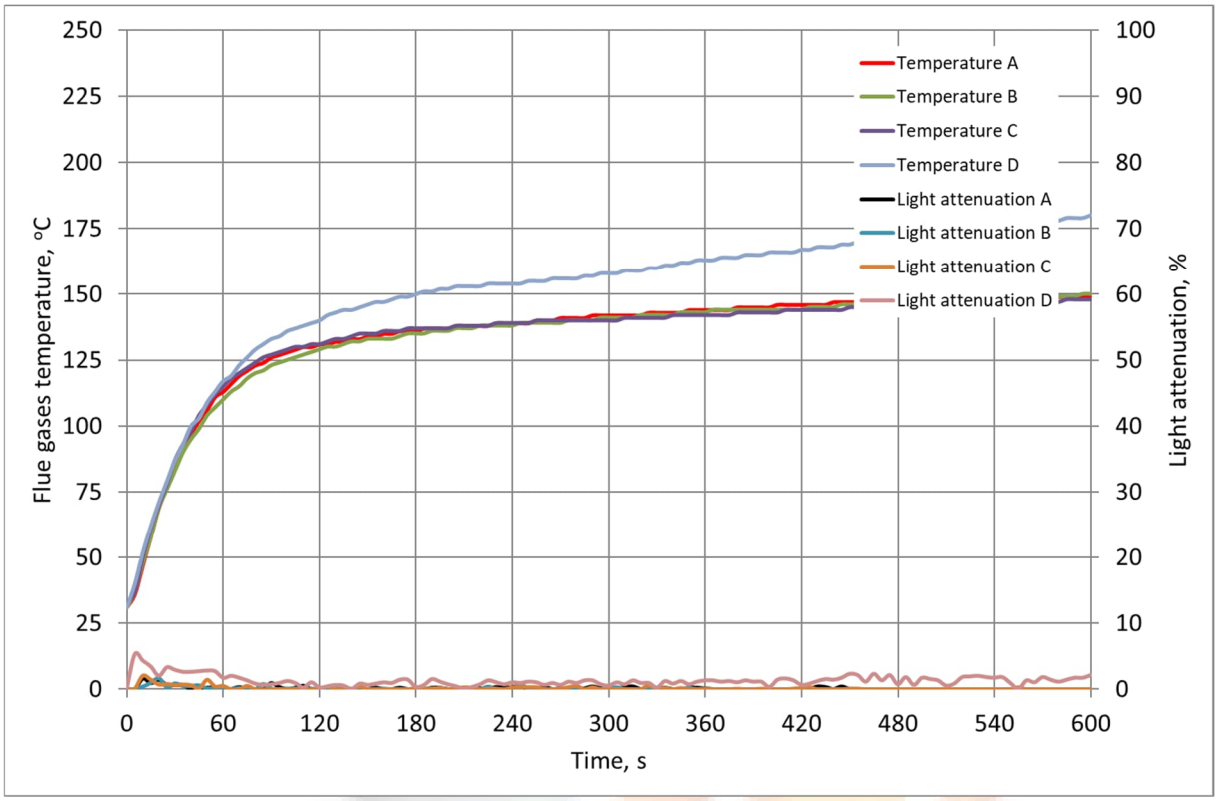


Figure 1. The relation of flue gases temperature and of the light attenuation in the time

Figure 2. Appearance of the specimens 1 after the test - Dark Colour: Bonaire, HYS172 Batch: 589577, length direction

Figure 3. Appearance of the specimens 2 after the test - Dark Colour: Bonaire, HYS172 Batch: 589577, cross direction

Figure 4. Appearance of the specimens 3 after the test - Medium Colour: Tortuga, HYS168 Batch: 584973

Figure 5. Appearance of the specimens 3 after the test - Light Colour: Apple, HYS096 Batch: 590188

2. Test results class B2 according to DIN 4102-1 (DIN 53438-2 and DIN 53438-3)

2.1. Edge ignition

Exposure time of pilot burner flame - 15 s.
Time from start of test.

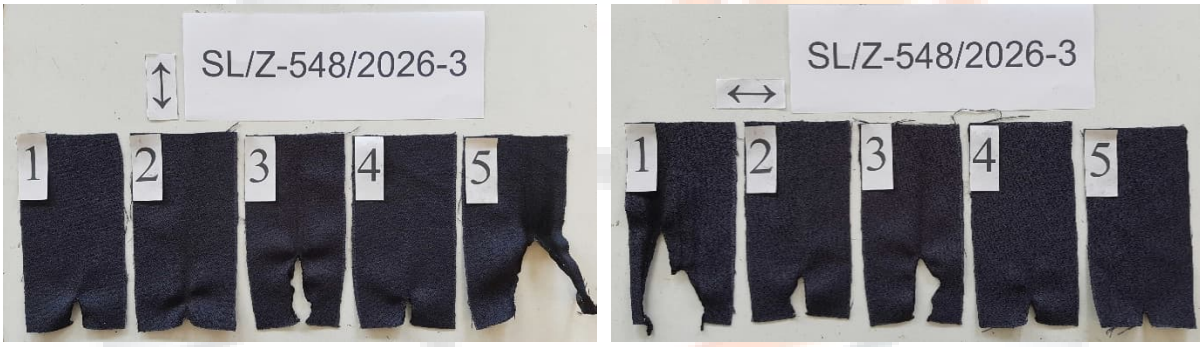
Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Minimum specimen thicknesses	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Maximum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ignition time	s	2	2	4	2	2	1	1	3	2	3
Extinction time	s	3	3	12	3	-	-	10	14	4	5
Burning time	s	1	1	8	1	18	19	9	11	2	2
Flame hight 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Time to reach 150 mm	s	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	1	1	6	1	9	9	4	6	2	1
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke					lack of smoke				

2.2. Surface ignition

Exposure time of pilot burner flame - 15 s.
Time from start of test.

Name of measured quantity	Unit	Specimen no./Test direction									
		length direction					cross direction				
		1	2	3	4	5	6	7	8	9	10
Minimum specimen thicknesses	mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Maximum specimen thicknesses	mm	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Ignition time	s	3	3	3	5	4	5	5	4	5	8
Extinction time	s	16	12	-	15	12	15	12	-	15	15
Burning time	s	13	9	17	10	8	10	7	16	10	7
Flame hight 150 mm within 20 s	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Time to reach 150 mm	s	-	-	-	-	-	-	-	-	-	-
Max. flame height	cm	4	3	9	4	5	5	4	8	4	4
Flaming particles or droplets	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ignition of paper	YES/NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Smoke development (visual impression)	-	lack of smoke					lack of smoke				

Remarks: none.



Edge ignition

Surface ignition

Figure 6. Appearance of the samples after the small burner test - Dark Colour: Bonaire, HYS172 Batch: 589577

3. Assessment

The determined test results show that the material fulfils the requirements of the building class B2 according to DIN 4102-1:1998-05.

The determined test results show that the material fulfils the requirements **of the building class B1** according to DIN 4102-1:1998-05.

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 report does not determine admission to the use of the product, when tested material is used as a construction product within the meaning of terrestrial technical requirements.
In the process of construction supervision test results can be the basis for a preliminary assessment of the compatibility/suitability.

4. Remaining required information

Date of receipt of samples: 29.04.2026

Sampling: Sponsor took and delivered samples.

Description of the test material: fabric in three colours: black, red and light green with a thickness of 0,9-1,0 mm, density of approx. 330 kg/m^3 and weight per unit area approx. 310 g/m^2. Sponsor delivered one piece with dimensions of 5600x4560 mm of black, one piece with dimensions of 5800x4800 mm of red fabric, one piece with dimensions of 5800x4560 mm of light green fabric. Laboratory prepared samples for the test.

Conditioning of specimens: after storing 14 days before the tests and/or constant mass at temperature of 23±2 ° C and relative humidity of 50±5 % (DIN 50014-23/50-2).

Declarations:

1. The test results relate to the behaviour of the test specimens under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the products in use.
2. The information provided on the first page of the report concerning the scope of research and identification of the tested object/objects were provided by the Sponsor.

Operators:

lic. Krzysztof Fidrysiak

mgr Dominika Niemiro

SYCHTA LABORATORIUM Sp. J.
72-010 Police, ul. Ofiar Stutthofu 90
tel./fax +48 91 4210 214, tel. 502078855
e-mail: biuro@sychta.eu www:sychta.eu
KRS 0000387681 REGON 321023120
NIP 8513152392

Authorised by:

KIEROWNIK TECHNICZNY
dr inż. Krzysztof Sychta

Date and place of test - 11.05 and 14.05.2026, Police