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IFBS

FEDERATION OF EUROPEAN FEDESSA SELF STORAGE ASSOCIATIONS

ssa self storage association United Kingdom

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BESTE LEZER,

In dit samengestelde document vind je alle testrapporten van het PVC-zeil dat wij toepassen in onze overkappingen. Het document geeft inzicht in sterkte, duurzaamheid, chemische samenstelling en brandklasse, inclusief de bijbehorende meetwaarden en testrapportnummers van TÜV SÜD en SGS.

De rapporten tonen aan dat het materiaal voldoende sterk is, correct is opgebouwd en voldoet aan de relevante wet- en regelgeving op het gebied van chemie, brandveiligheid en mechanische eigenschappen.

De volgende testen en normen zijn opgenomen:

- UV-belasting en treksterkte volgens ISO 4892-3:2024 en EN ISO 1421:2016 (UV-testreport PVC green).
- Trekproef volgens ISO 13934-1:2013 (tensile test).
- Scheursterkte volgens ISO 13937-1:2000 (tear strength).
- Chemische veiligheid volgens Regulation (EC) No. 1907/2006 (REACH) Annex XVII:
  - Item 50 – Polycyclic Aromatic Hydrocarbons (PAHs)
  - Item 63 – Lead content
  - Item 20 – Organotin content
- Persistente organische verontreinigingen volgens Regulation (EU) 2019/1021 (POPs) – SCCP (short-chain chlorinated paraffins).
- Brandgedrag volgens DIN 4102-1:1998-05, classificatie B2: Fire behaviour of building materials and building components – Part 1: Classification of building materials, requirements and testing.
- Brandclassificatie volgens EN 13501-1:2007+A1:2009, reaction to fire, geclassificeerd als Bs1,d0 (SGS testrapport PVC coated tarpaulin 610 g/m2, rapportnr. AJD201106078).

VRAGEN?

Ons team denkt graag met u mee en beantwoord uw vragen!

+31 26 700 9 700

sales@kroftman.com

Test Report No.: 70.404.25.11034.04
Dated: 2025-04-30

Applicant:	BACO GROUP LIMITED
Address:	SUITE 1126, 11TH FLOOR OCEAN CENTRE, HARBOUR CITY, 5 CANTON ROAD
Product Name:	TARPAULIN
Product Type / End use:	TENT COVER
Model No.:	610g PVC
Country of Destination:	EUROPE, USA, AUSTRALIA, CANADA
Receipt Date of Sample:	2025-04-16
Date of Testing:	From 2025-04-16 to 2025-04-23
Sample Submitted:	The sample(s) was (were) submitted by applicant and identified.
Test Result:	Refer to the data listed in following pages

Test Specification(s) or Test Item(s):	**Conclusions:**
1. Tensile test according to ISO 13934-1:2013	**See the results**
2. Tear strength according to ISO 13937-1:2000	**See the results**

Hardline laboratory

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch Testing Center

Prepared by:

LIU, XIN (STACIE)
PROJECT HANDLER

Authorized by:

GU, XIAODONG (MARK)
DESIGNATED REVIEWER

Note:

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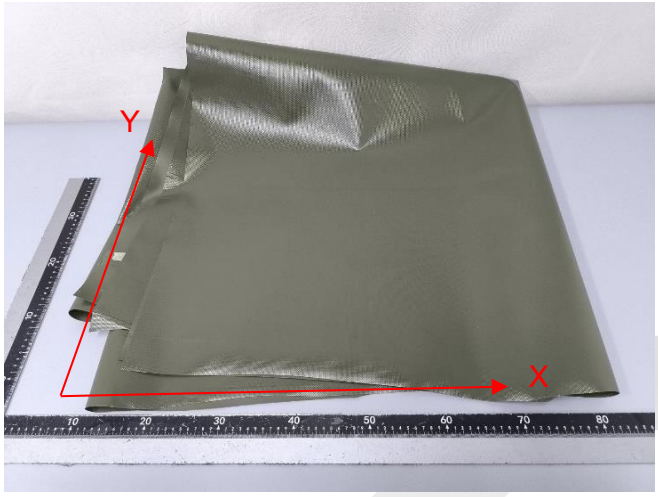
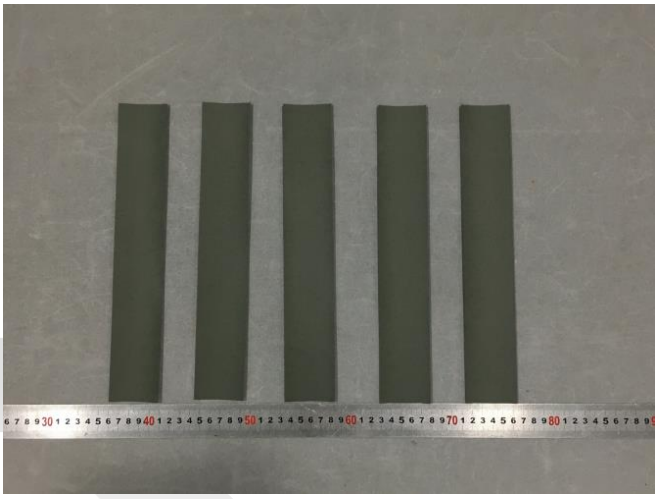
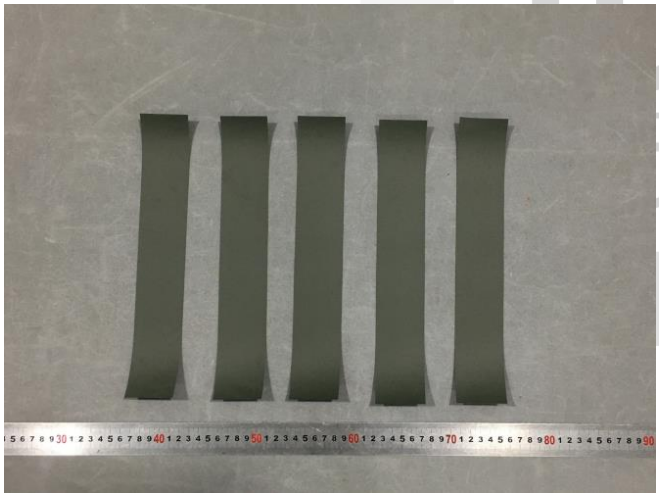
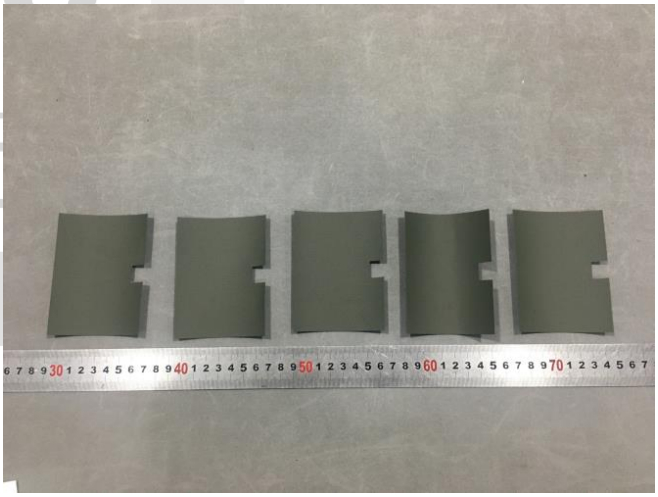
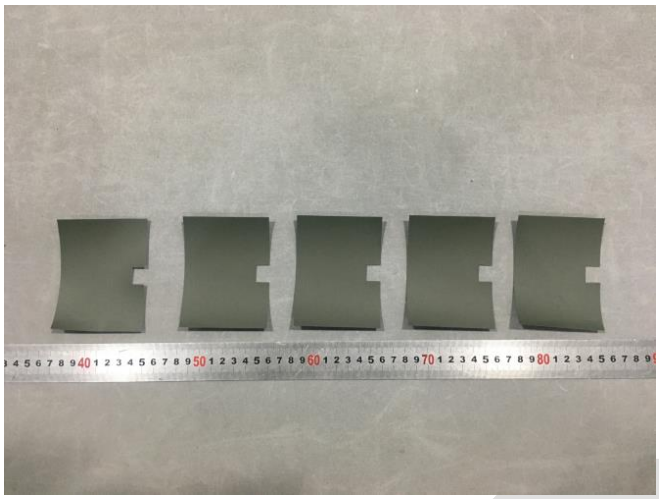
Description of the test subject:

1	**Product Description**	Green fabric
As received		Tensile test pieces-X
		
Tensile test pieces-Y		Tear test pieces-X
		

Tear test pieces-Y	/
	/

Test Results:

1. **Tensile test**:

Test method : ISO 13934-1:2013

Test condition : 23.5℃, 51.4%RH
Gauge length: 150mm
Rate of elongation: 300mm/min
Specimen state: conditioned
Sample width: 50mm

Results :

Sample	Maximum force, N	Elongation, %	Maximum force, N	Elongation, %
	X		Y	
1	2589.3	29.7	2888.1	27.2
2	2465.8	29.4	3082.6	30.0
3	2870.6	33.6	2961.9	28.8
4	2769.5	32.3	2851.9	27.6
5	2476.6	29.7	2894.2	28.2
Average	2634.4	30.9	2935.8	28.3

2. Tearing strength:

Test method : ISO 13937-1:2000, single tear method

Test condition : As received

Jaw separation : 100mm

Rate of extension : 100mm/min

Results :

Sample.	Tear strength (X), N	Tear strength (Y), N
1	>125	104
2	>125	104
3	>125	105
4	>125	92
5	>125	99
Average	>125	101

-End of Test Report-

Test Report No.: 70.404.25.11034.07
Dated: 2025-05-13

Applicant:	BACO GROUP LIMITED
Address:	SUITE 1126, 11TH FLOOR OCEAN CENTRE, HARBOUR CITY, 5 CANTON ROAD
Product Name:	TARPAULIN
Product Type / End use:	TENT COVER
Model No.:	610g PVC
Country of Destination:	EUROPE, USA, AUSTRALIA, CANADA
Receipt Date of Sample:	2025-04-16
Date of Testing:	From 2025-04-16 to 2025-04-30
Sample Submitted:	The sample(s) was (were) submitted by applicant and identified.
Test Result:	Refer to the data listed in following pages

Test Specification(s) or Test Item(s):	**Conclusions:**
1. UV exposure and tensile test	**See the results**

Hardline laboratory

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch Testing Center

Prepared by:

LIU, XIN (STACIE)
PROJECT HANDLER

Authorized by:

GU, XIAODONG (MARK)
DESIGNATED REVIEWER

Note:

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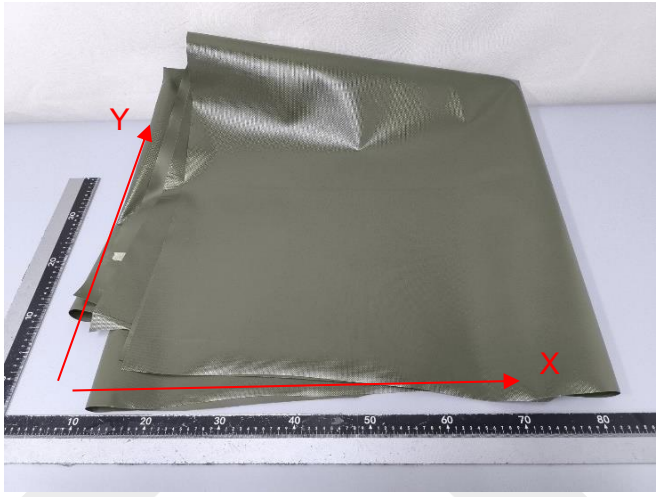
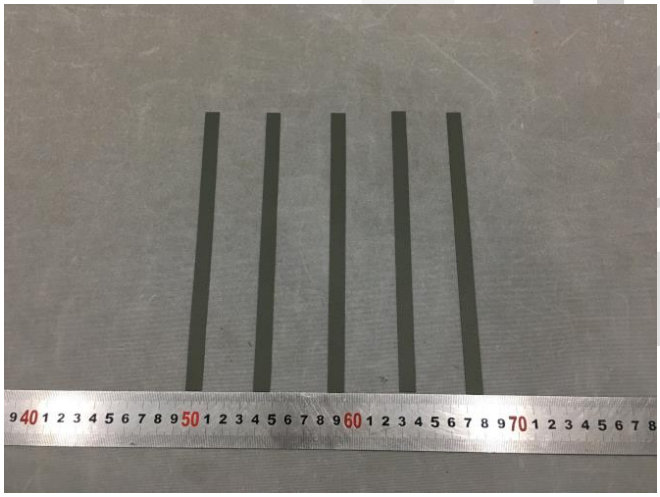
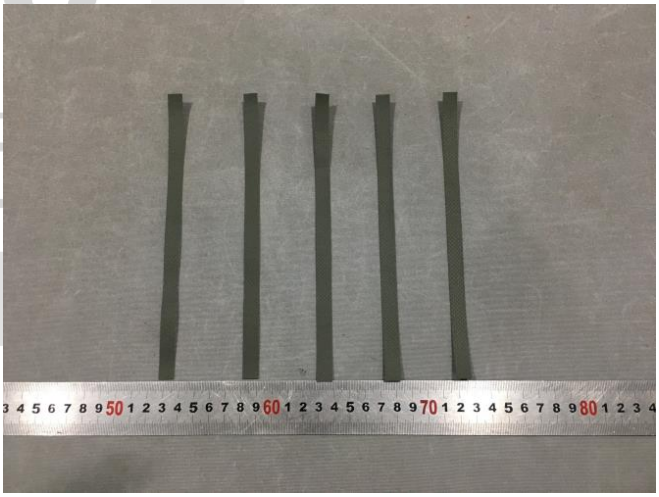
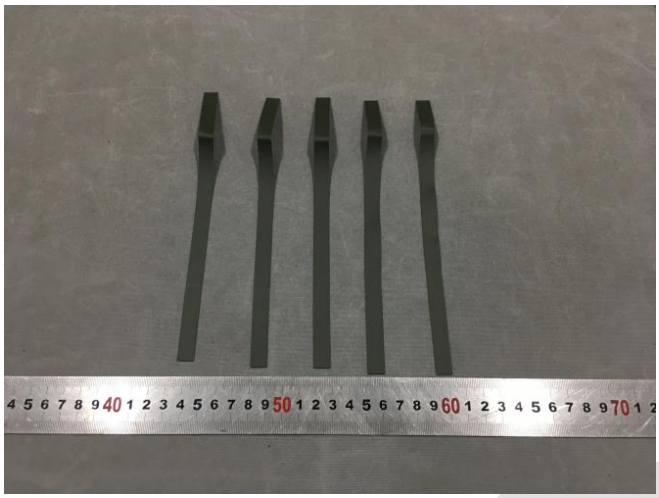
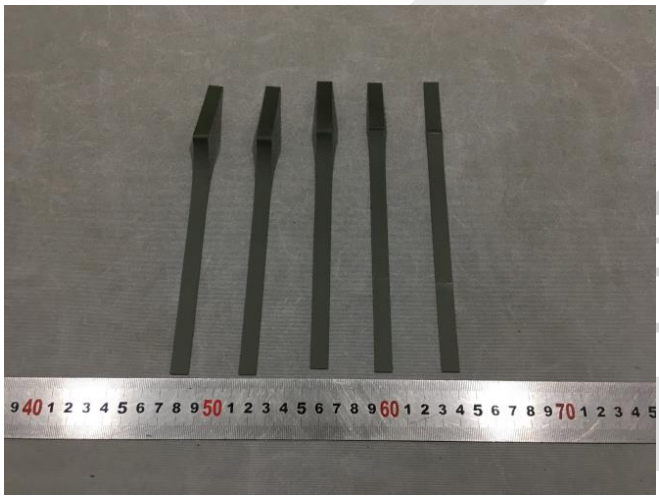
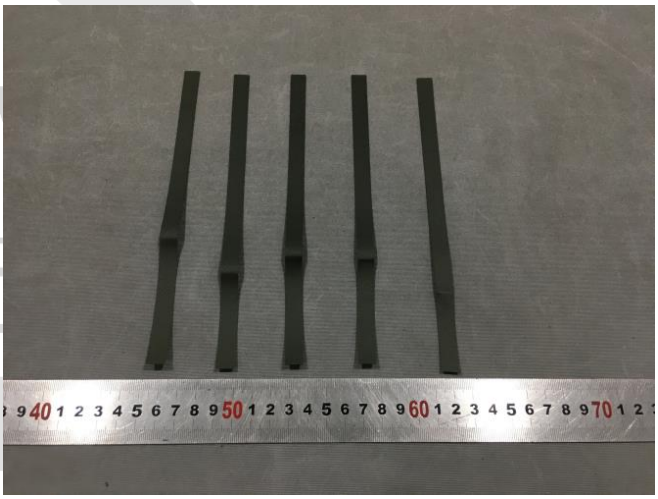
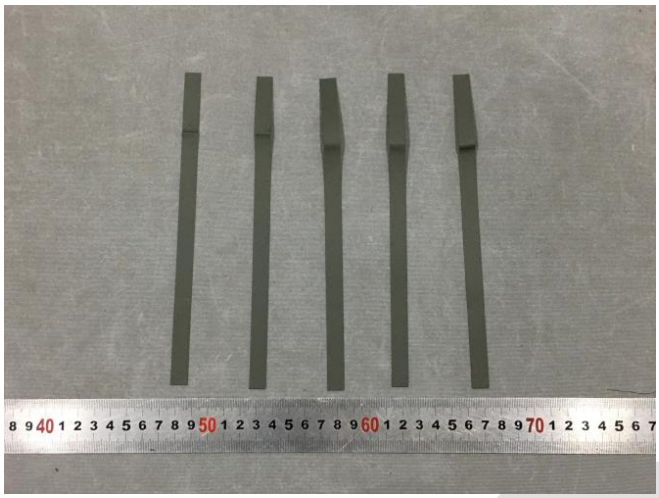
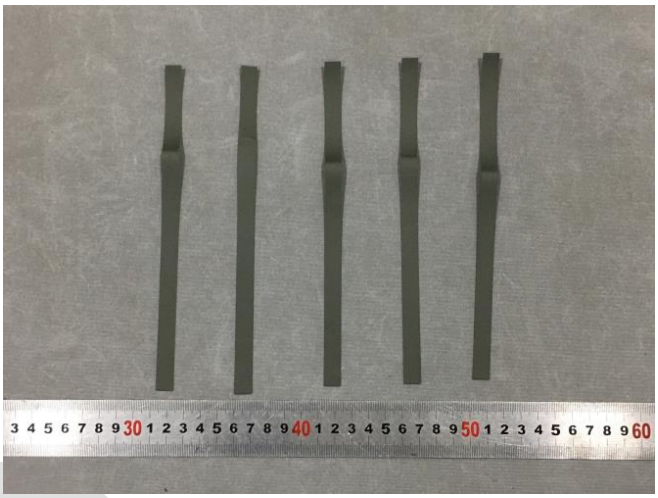
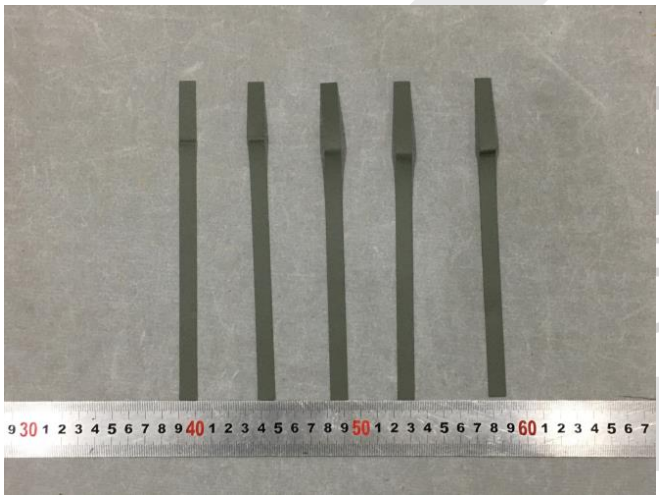
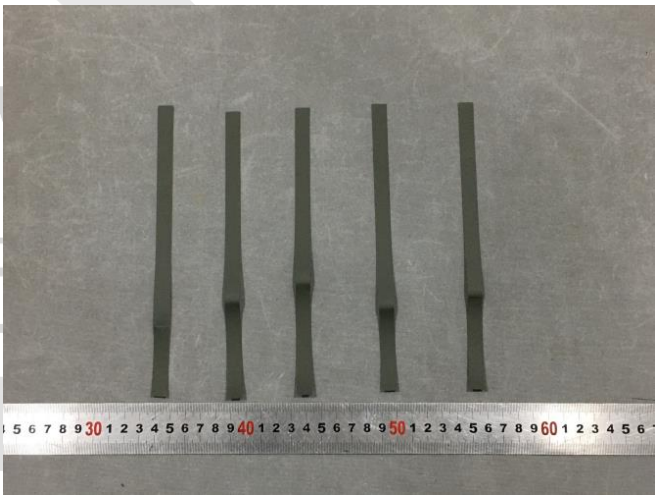
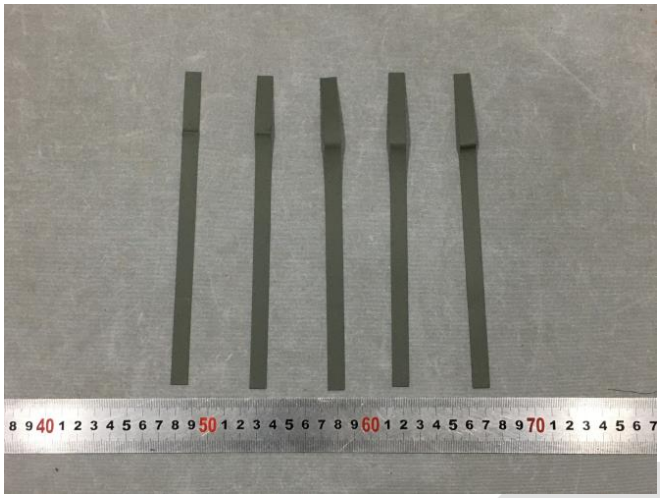
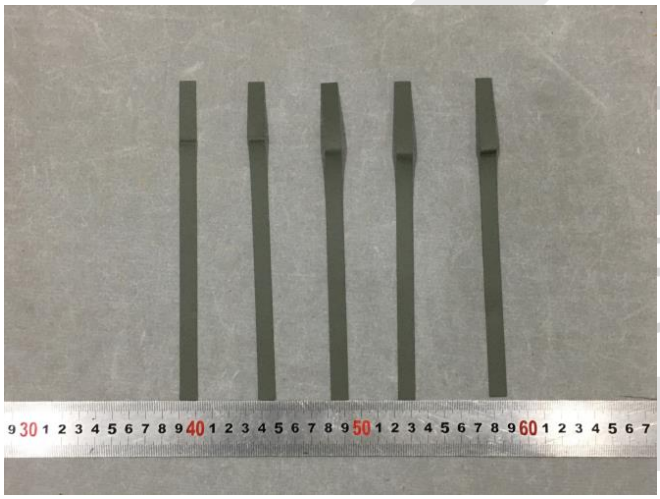
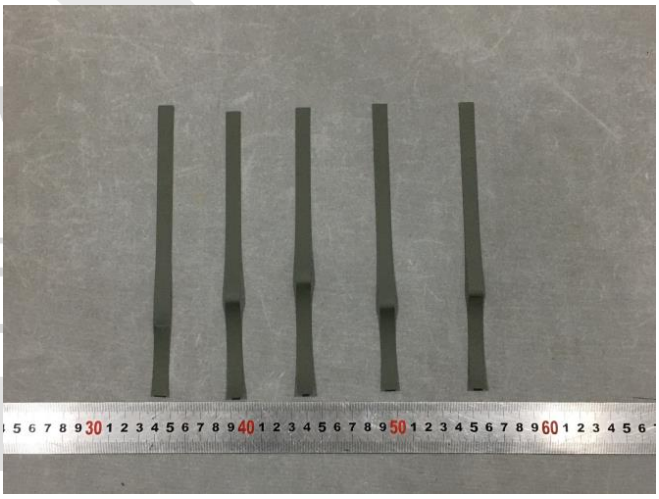
Description of the test subject:

1	**Product Description**	White fabric
As received		
		
X-unexposed sample		Y-unexposed sample
		

X-exposed sample-60h	Y-exposed sample-60h
	
X-exposed sample-120h	**Y-exposed sample-120h**
	

X-exposed sample-180h	Y-exposed sample-180h
	
X-exposed sample-240h	**Y-exposed sample-240h**
	

X-exposed sample-180h	Y-exposed sample-180h
	
X-exposed sample-240h	**Y-exposed sample-240h**
	

Test Results:

1. **UV exposure & tensile test:**

Test method : ISO 4892-3:2024 Method A cycle1 & EN ISO 1421:2016 Method 1

UV test condition :

Exposure period	Lamp type	Irradiance	BPT
8h dry 4h condensation	UVA-340(type 1A)	(0.76 ±0.02)W/m^2@340nm UV lamps off	60℃±3℃ 50℃±3℃

Duration 60 hours, 120 hours, 180 hours, 240 hours

Tensile test condition : Gauge length: 100mm
Rate of extension: 100mm/min

Results :

Sample		Tensile strength, N/5cm						Tensile Loss, %
		1	2	3	4	5	Avg.	
X	Original sample	2585.8	2456.7	2712.6	2681.4	2725.7	2632.4	/
	After 60h exposure	2538.4	2565.4	2631.3	2752.4	2425.4	2582.6	-1.9
	After 120h exposure	2586.1	2583.8	2528.9	2210.8	2526.4	2487.2	-5.5
	After 180h exposure	2529.5	2566.7	2512.0	2487.7	2450.9	2508.1	-4.7
	After 240h exposure	2530.9	2473.3	2022.6	2544.0	2396.2	2393.4	-9.1
Y	Original sample	3017.5	3141.4	3145.4	3137.6	2909.2	3070.2	/
	After 60h exposure	3195.1	2807.3	2946.8	3315.5	2578.1	2968.5	-3.3
	After 120h exposure	2878.4	2834.7	3208.3	2976.7	2921.0	2963.8	-3.5
	After 180h exposure	2684.8	2753.2	3088.6	2799.7	3176.1	2900.5	-5.5
	After 240h exposure	3236.7	3025.5	3005.4	3004.5	2865.2	3027.5	-1.4

-End of Test Report-

Test Report No.: 70.404.25.11034.01

Date: 2025-04-27

Applicant:	BACO GROUP LIMITED
Address:	SUITE 1126, 11TH FLOOR OCEAN CENTRE, HARBOUR CITY, 5 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Product Name:	TARPAULIN
Model No:	610g PVC
End Use:	TENT COVER
Country of Destination:	EUROPE,USA,AUSTRALIA,CANADA
Receipt Date of Sample:	2025-04-15
Date of Testing:	2025-04-15 ~ 2025-04-27
Sample Submitted:	The sample(s) was (were) submitted by applicant and identified.
Test Result:	Refer to the data listed in following pages

Test Item	**Conclusion**
1. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)	**Pass**
2. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 63 - Lead Content	**Pass**
3. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 20 - Organotin Content	**Pass**
4. European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) - Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	**Pass**

Remarks:
1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. Test items and samples were specified by client.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center

Prepared by: **Authorized by:**

Jenny Yao
Technical Engineer

Sawyer Tang
Technical Manager

Note:

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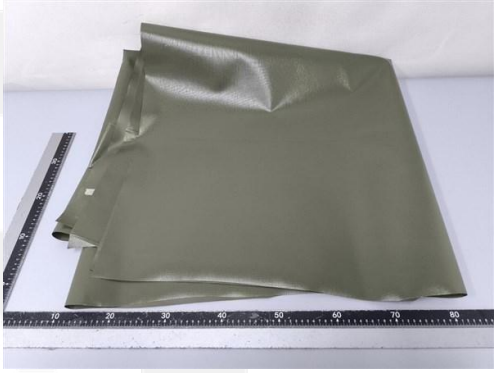
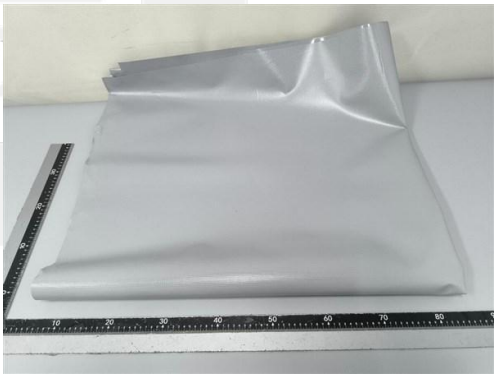
Description of Tested Subject:

Sample	Description	Photo
001	White soft plastic	
002	Green soft plastic	
003	Grey soft plastic	

Test Result(s):

1. **Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)**
   Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					001+002+003
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	1	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	1	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	1	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	1	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	1	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	1	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	1	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	1	ND
Conclusion					**Pass**

2. **Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 63 - Lead Content**
   Test with reference to in-house method, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002+003	mg/kg	10.0	500	ND	**Pass**

3. **Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 20 - Organotin Content**
   Test with reference to ISO 17353:2004, determination by GC-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			001+002+003
DBT	0.025	1000	ND
TBT	0.025	1000	ND
DOT	0.025	1000	ND
TcyT	0.025	1000	ND
TPhT	0.025	1000	ND
Conclusion			**Pass**

4. European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) - Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					001+002+003
SCCP	85535-84-8	mg/kg	100	1500	ND
Conclusion					**Pass**

-End of Test Report-

KROFTMAN STRUCTURES BV

VEEM 3 6909DZ BABBERICH

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description: PVC COATED TARPAULIN

Type/Style: SW10202F2-610/802

Composition: PVC COMPOUND & PET

Thickness: 0.46mm

End use application: TENT COVER

Test Requested:

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests, class B.

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date	:	DEC.30, 2011
Test Performing Date	:	DEC.30, 2011 TO JAN.17, 2012

Signed for and on behalf of
SGS-CSTC Co., Ltd.

Allen Zou
Technical Supervisor

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SGS-CSTC Standards Technical Services Co., Ltd.
Anji Branch Hardgoods Laboratory.
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I. Test conducted

This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN 13823:2010 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2:2010 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Details of classified product

a) Nature and end use application

The product "PVC COATED TARPAULIN" is defined as a decorative sheet. Its classification is valid for the following end use application:

"Tent cover"

b) Description

The product "PVC COATED TARPAULIN" is consists of PVC COMPOUND & PET.

Color	White
Thickness*	About 0.46mm
Mass per unit area	About 620g/m^2

*---Measured by laboratory

Mounting and fixing:

The test specimens are fixed mechanically in the trolley, Champed at the top and the bottom, The test specimen are free standing at a distance of 90mm from the backing board, no joint in the long wing of the specimen.

III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA（W/s）	3	30.2
	LFS < edge of specimen		Yes
	THR_{600s}（MJ）		3.2
	SMOGRA（m^2/s^2）		12.6
	TSP_{600s}（m^2）		11.3
	Flaming particles or droplets		No

To be continued…

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Test method	Parameter	Specimen number	Results
EN ISO 11925-2 Exposure = 30 s	*F*s ≤ 150 mm	6	Yes
	Ignition of the filter paper		No

IV. Classification and direct field of application

This classification has been carried out in accordance with **EN 13501-1:2007+A1:2009.**

a) Classification

The product, "PVC COATED TARPAULIN", classification is as following,

Fire behaviour		**Smoke production**			**Flaming droplets**	
B	—	s	1	,	d	0

Reaction to fire classification: B—s1, d0

Remark: The classes with their corresponding fire performance are given in annex A.

b) Field of application

This classification for the submitted sample, is valid for the following end use condition:

---With all substrates classified A1 and A2

---With mechanical fixing

---No joint

This classification is valid for the following product parameters:

---Characteristics are described in § II b of this test reports.

Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Warning:

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

To be continued…

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Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)		Classification criteria	Additional classification
A1	EN ISO 1182 [a] and		ΔT≤30℃, and Δm≤50%, and t_f=0(i.e. no sustained flaming)	-
	EN ISO 1716		*PCS*≤2.0MJ/kg [a] and *PCS*≤2.0MJ/kg [b c] and *PCS*≤1.4MJ/m^2 [d] and *PCS*≤2.0MJ/kg [e]	-
A2	EN ISO 1182 [a] or	and	ΔT≤50℃, and Δm≤50%, and t_f≤20 s	-
	EN ISO 1716		*PCS*≤3.0MJ/kg [a] and *PCS*≤4.0MJ/m^2 [b] and *PCS*≤4.0MJ/m^2 [d] and *PCS*≤3.0MJ/kg [e]	-
	EN 13823		*FIGRA*≤120W/s and *LFS*＜edge of specimen and THR_{600s}≤7.5MJ	Smoke production [f] and Flaming droplets/particles [g]
B	EN 13823 and		*FIGRA*≤120W/s and *LFS*＜edge of specimen and THR_{600s}≤7.5MJ	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure =30s		60s 内 *Fs*≤150mm	
C	EN 13823 and		*FIGRA*≤250W/s and *LFS*＜edge of specimen and THR_{600s}≤15MJ	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure=30s		*Fs*≤150mm within 60 s	
D	EN 13823 and		*FIGRA*≤750W/s	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure=30s		*Fs*≤150mm within 20 s	
E	EN ISO 11925-2 [i] Exposure =15s		*Fs*≤150mm within 20 s	flaming droplets/particles [h]

To be continued…

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F	No performance determined

[a] For homogeneous products and substantial components of non-homogeneous products.
[b] For any external non-substantial component of non-homogeneous products.
[c] Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m^2 , provided that the product satisfies the following criteria of EN 13823: FIGRA ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4,0 MJ, and s1, and d0.
[d] For any internal non-substantial component of non-homogeneous products.
[e] For the product as a whole.
[f] In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.

s1 = SMOGRA ≤ 30m^2/s^2 and TSP_{600s} ≤ 50m^2 ; s2 = SMOGRA ≤ 180m^2/s^2 and TSP_{600s} ≤ 200m^2; s3 = not s1 or s2
[g] d0 = No flaming droplets/ particles in EN 13823 within 600 s;
d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;
d2 = not d0 or d1.
Ignition of the paper in EN ISO 11925-2 results in a d2 classification.
[h] Pass = no ignition of the paper (no classification);
Fail = ignition of the paper (d2 classification).
[i] Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.

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Photo Appendix:

Before test	After test
Before test	After test

End of Report

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BACO GROUP LIMITED

SUITE 1126, 11TH FLOOR OCEAN CENTRE, HARBOUR CITY, 5 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG

Sample Name: TARPAULIN

SGS Ref No.: SHIN2405001216CM01

Product Specification: 610g, PVC

Style/Item No.: /

End Use: CONTAINER SHELTER COVER, STORAGE TENT COVER

Country of Destination: EUROPE, USA, AUSTRALIA, CANADA

Country of Origin: CHINA

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

****

Test Requested:

DIN 4102-1:1998-05 Fire behaviour of building materials and building components, Part 1: Classification of building materials, Requirements and testing, Class B1 materials---For all materials except flooring.

Test Results: -- See attached sheet –

Classification: The tested sample **meets** class **B1** materials requirements of DIN 4102-1:1998-05.

Test Period:

Sample Receiving Date	:	MAY 30, 2024
Test Performing Date	:	MAY 30, 2024 TO JUN.17, 2024

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Echo Li
Approved Signatory

Scan to see the report

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I. Test conducted

This test was conducted as per DIN 4102-15:1990 Fire behaviour of building materials and building components – 'Brandschacht' apparatus, DIN 4102-16:2021 Fire behaviour of building materials and building components– 'Brandschacht' tests and DIN 4102-1:1998-05 Clause 6.2.5, and Classification according to DIN 4102-1:1998-05 Clause 6.1 Class B1 materials.

II. Sample details

General description	TARPAULIN (provided by client)
Color	White
Area Density	610 g/m^2
Size of sample	190mm×1000mm & 190mm×90mm & 230mm×90mm
Exposed (tested) surface	Smooth surface

Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 5 %.

III. Test results

1) "Brandschacht" Test according to DIN 4102-15 &16

Results of "Brandschacht" Test (part 1)				
Line No.		Unit	Test direction	
			Lengthwise	Widthwise
1	Specimen fixings according to DIN 4102 part 15, table	/	/	/
2	Max. flame height above lower sample edge;	cm	50	50
3	Time 1)	min:s	01:07	01:23
	Melting/burning through		Yes	Yes
4	Time 1)	min:s	00:07	00:08
	Back of specimen		Yes	Yes
5	Flaming/glowing, Time 1)	min:s	00:07	00:08
6	Discolouring, Time 1)	min:s	00:04	00:04
	Burning droplets		Yes	Yes
7	Begin 1)	min:s	00:24	00:19
	Amount		/	/
8	Specimen material falling off in separate droplets		√	√
9	Specimen material falling off continuously		/	/

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Results of "Brandschacht" Test (part 2)				
Line No.		Unit	Test direction	
			Lengthwise	Widthwise
	Burning parts		No	No
10	Begin 1)	min:s	/	/
11	Parts of sample falling off separately		/	/
12	Parts of sample falling off continuously		/	/
13	Duration of continued combustion on mesh base (max.)	min:s	No	No
	Burner flame impairment by dripping/falling material		No	No
14	Time [1)]	min:s	/	/
	Premature ending of test		/	/
15	End of burning at specimen [1)]	min:s	/	/
16	Time when test terminated (if applicable) [1)]	min:s	/	/
	Burning after end of test		No	No
17	Duration	min:s	/	/
18	Number of specimens		/	/
19	Front of specimen		/	/
20	Back of specimen		/	/
21	Height of flame	cm	/	/
	Glowing after end of test		No	No
22	Duration	min:s	/	/
23	Number of specimens		/	/
24	Front of specimen		/	/
25	Back of specimen		/	/
26	Top half of specimen		/	/
27	Bottom half of specimen		/	/
	Smoke density		Yes	Yes
28	≤ 400 %×min		√	√
29	＞ 400 %×min		/	/

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Results of "Brandschacht" Test (part 3)						
Line No.		Unit	Test direction			
			Lengthwise		Widthwise	
	Residual length		/		/	
30	Single results	cm	56	53	55	57
			54	54	54	55
31	Average of the single results	cm	54.3		55.3	
	Smoke temperature		/		/	
32	Max. of average	℃	145.8		141.2	
33	Time [1)]	min:s	05:07		04:49	

Note: [1)] time from start of testing

*Reduction in number of test (*DIN 4102 Part 16, clause 5.2*)

Class B1 materials:

If the residual length measured after the first test is 45cm or greater, further tests are not required.

2) Ignitibility test according to DIN 4102-1 Clause 6.2.5

a) Surface ignition

Fire application time*:* 15s

Parameter	Lengthwise					Widthwise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark (s)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Afterflame time (s)	7	5	8	7	6	6	8	7	9	5
Max. flame height (cm)	5	5	7	6	6	7	7	6	8	7
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Slight					Slight				

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b) Edge ignition

Fire application time: 15s

Parameter	Lengthwise					Widthwise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark (Yes/No)	No	No	No	No	No	No	No	No	No	No
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark (s)	23	25	22	23	25	27	24	22	25	26
Afterflame time (s)	147	125	154	133	141	157	148	142	152	131
Max. flame height (cm)	>19	>19	>19	>19	>19	>19	>19	>19	>19	>19
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Medium					Medium				

Note: NA = Not applicable

IV. DIN 4102-1:1998 Criteria for classification

1) All materials, except flooring, may be classed as **B1** materials if they meet the following requirements a) and b):

a) The test using the 'Brandschacht' apparatus described in DIN 4102-15 (cf. subclause 6.1.3.1) shall be deemed passed if

– The mean value for the residual length (portion of specimen that has not burned or charred; cf. subclause 9.1 of DIN 4102-16) of each specimen is at least 15 cm and no individual values are lower than 0 cm,

– The mean effluent temperature does not exceed 200 °C in any test,

– The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

b) Pass DIN 4102-1:1998 sub-clause 6.2.5 Ignitability Test if

For each specimen, flaming doesn't reach the gage mark within 20s after flame application.

2) Materials may be classed as **B2** materials if they pass the ignitibility test specified in DIN 4102-1:1998 subclause 6.2.5.

For each specimen, flaming doesn't reach the gage mark (150mm marks) within 20s after flame application.

3) Combustible materials which cannot be classed as B1 or B2 materials shall be classed as **B3** materials.

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STATEMENTS:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

This test report does not replace any mandatory certification of the product that may be required.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire and smoke hazard of the product in use.

Photo Appendix:

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BACO GROUP LIMITED

SUITE 1126, 11TH FLOOR OCEAN CENTRE, HARBOUR CITY, 5 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG

THE TEST REPORT IS TO SUPERSEDE THE TEST REPORT No.: AJFTS25002955R02_EN, DATE: May 28,2025.

Sample Name	:	TARPAULIN
Product Specification	:	610g, PVC
Style/Item No.	:	/
End Use	:	CONTAINER SHELTER COVER, STORAGE TENT COVER
Country of Origin	:	CHINA
Country of Destination	:	EUROPE, USA, AUSTRALIA, CANADA

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

****

SGS Ref. No.	:	SUZIN2505001315PL02
Sample Receiving Date	:	May 15,2025
Testing Period	:	May 15,2025 to May 28,2025
Test Required	:	DIN 4102-1:1998-05 Fire behaviour of building materials and building components Part 1: Classification of building materials, Requirements and testing, Class B2 materials---For all materials except flooring.
Test result(s)	:	See attached sheet
Conclusion	:	The tested sample **meets** class **B2** materials requirements of DIN 4102-1:1998-05.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd Anji Branch

Echo

Echo Li
Approved signatory

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I. Test conducted

This test was conducted as per DIN 4102-1:1998-05 Fire behaviour of building materials and building components Part 1: Classification of building materials, Requirements and testing, Clause 6.2. Class B2 materials.

II. Sample details

Sample description	PVC
Color	Green
Density	610 g/m^2
Size of sample	190mm×90mm & 230mm x 90mm
Exposed (tested) surface	Marking surface (see the photo)

Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 6 %.

III. Test results

1) Surface ignition

Fire application time: 15s

Parameter	Lengthwise					Widthwise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark (s)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Afterflame time (s)	0	0	0	0	2	8	0	2	1	0
Max. flame height (cm)	6	7	5	7	6	8	6	7	6	7
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Medium					Medium				

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2) Edge ignition

Fire application time: 15s

Parameter	Lengthwise					Widthwise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark (Yes/No)	No	No	No	No	No	No	No	No	No	No
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark (s)	24	23	22	22	21	24	26	25	24	29
Afterflame time (s)	132	118	122	127	108	107	141	132	126	121
Max. flame height (cm)	>19	>19	>19	>19	>19	>19	>19	>19	>19	>19
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Large					Large				

Note: NA = Not applicable

DIN 4102-1: 1998-05 Criteria for B2/B3 classification

1) Materials may be classed as **B2** materials if they pass the ignitibility test specified in DIN 4102-1: 1998 subclause 6.2.5: For each specimen, flaming doesn't reach the gage mark within 20s after flame application.
2) Combustible materials which cannot be classed as B1 or B2 materials shall be classed as **B3** materials.

STATEMENTS:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

This test report does not replace any mandatory certification of the product that may be required.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire and smoke hazard of the product in use.

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BACO GROUP LIMITED

SUITE 1126, 11TH FLOOR OCEAN CENTRE, HARBOUR CITY, 5 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG

THE TEST REPORT IS TO SUPERSEDE THE TEST REPORT No.: AJFTS25002955R01_EN, DATE: May 28,2025.

Sample Name	:	TARPAULIN
Product Specification	:	610g, PVC
Style/Item No.	:	/
End Use	:	CONTAINER SHELTER COVER, STORAGE TENT COVER
Country of Origin	:	CHINA
Country of Destination	:	EUROPE, USA, AUSTRALIA, CANADA

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

****

SGS Ref. No.	:	SUZIN2505001315PL01
Sample Receiving Date	:	May 15,2025
Testing Period	:	May 15,2025 to May 28,2025
Test Required	:	DIN 4102-1:1998-05 Fire behaviour of building materials and building components Part 1: Classification of building materials, Requirements and testing, Class B2 materials---For all materials except flooring.
Test result(s)	:	See attached sheet
Conclusion	:	The tested sample **meets** class **B2** materials requirements of DIN 4102-1:1998-05.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd Anji Branch

Echo Li
Approved signatory

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I. Test conducted

This test was conducted as per DIN 4102-1:1998-05 Fire behaviour of building materials and building components Part 1: Classification of building materials, Requirements and testing, Clause 6.2. Class B2 materials.

II. Sample details

Sample description	PVC
Color	Grey
Density	610 g/m^2
Size of sample	190mm×90mm & 230mm×90mm
Exposed (tested) surface	Marking surface (see the photo)

Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 6 %.

III. Test results

1) Surface ignition

Fire application time: 15s

Parameter	Lengthwise					Widthwise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark (s)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Afterflame time (s)	0	0	0	0	0	0	0	0	0	0
Max. flame height (cm)	6	7	6	8	7	7	7	6	8	7
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Medium					Medium				

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2) Edge ignition

Fire application time: 15s

Parameter	Lengthwise					Widthwise				
	1	2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark (Yes/No)	Yes	Yes	Yes	No	No	Yes	No	No	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	No	No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark (s)	NA	NA	NA	23	25	NA	25	22	NA	NA
Afterflame time (s)	14	6	1	90	98	7	89	103	1	2
Max. flame height (cm)	13	9	7	>19	>19	9	>19	>19	7	8
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Large					Large				

Note: NA = Not applicable

DIN 4102-1: 1998-05 Criteria for B2/B3 classification

1) Materials may be classed as **B2** materials if they pass the ignitibility test specified in DIN 4102-1: 1998 subclause 6.2.5: For each specimen, flaming doesn't reach the gage mark within 20s after flame application.
2) Combustible materials which cannot be classed as B1 or B2 materials shall be classed as **B3** materials.

STATEMENTS:

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