

FABRIC TEST REPORT **PVC**



DEAR READER,

This combined document contains all test reports for the PVC tarpaulin that we use in our shelters. The document provides insight into strength, durability, chemical composition and fire classification, including the corresponding measurement values and test report numbers from TÜV SÜD and SGS.

The reports demonstrate that the material is sufficiently strong, correctly constructed, and compliant with the relevant legislation and regulations in the areas of chemistry, fire safety and mechanical properties.

The following tests and standards are included:

- UV exposure and tensile strength according to ISO 4892-3:2024 and EN ISO 1421:2016 (UV test report PVC green).
- Tensile test according to ISO 13934-1:2013 (tensile test).
- Tear strength according to ISO 13937-1:2000 (tear strength).
- Chemical safety according to Regulation (EC) No. 1907/2006 (REACH) Annex XVII:
 - Item 50 – Polycyclic Aromatic Hydrocarbons (PAHs)
 - Item 63 – Lead content
 - Item 20 – Organotin content.
- Persistent organic pollutants according to Regulation (EU) 2019/1021 (POPs) – SCCP (short-chain chlorinated paraffins).
- Fire behaviour according to DIN 4102-1:1998-05, classification B2: Fire behaviour of building materials and building components – Part 1: Classification of building materials, requirements and testing.
- Fire classification according to EN 13501-1:2007+A1:2009, reaction to fire, classified as Bs1,d0 (SGS test report PVC coated tarpaulin 610 g/m², report no. AJD201106078).

QUESTIONS?

Our team is happy to think along with you and answer your questions!

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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):

1. Tensile test according to ISO 13934-1:2013
2. Tear strength according to ISO 13937-1:2000

Conclusions:

See the results

See the results

Hardline laboratory

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

Prepared by:

Authorized by:

LIU, XIN (STACIE)
PROJECT HANDLER



GU, XIAODONG (MARK)
DESIGNATED REVIEWER

Note:

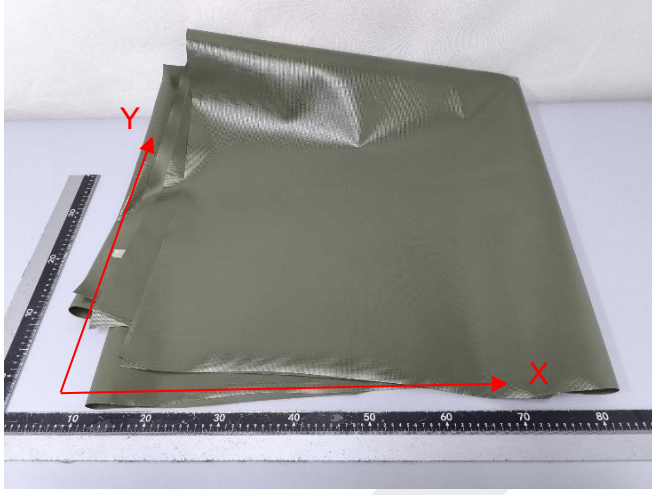
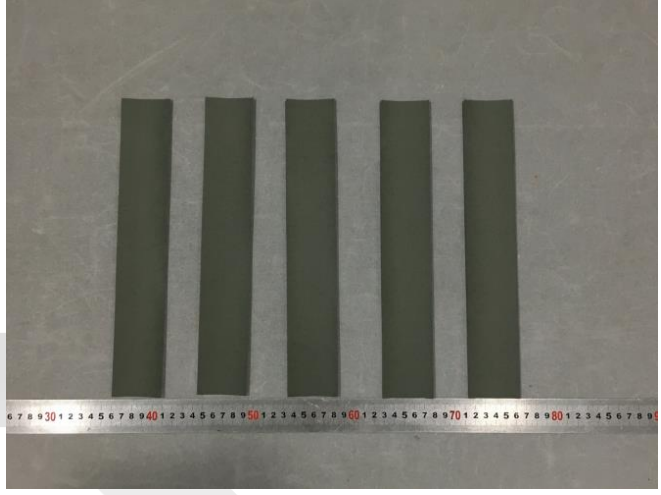
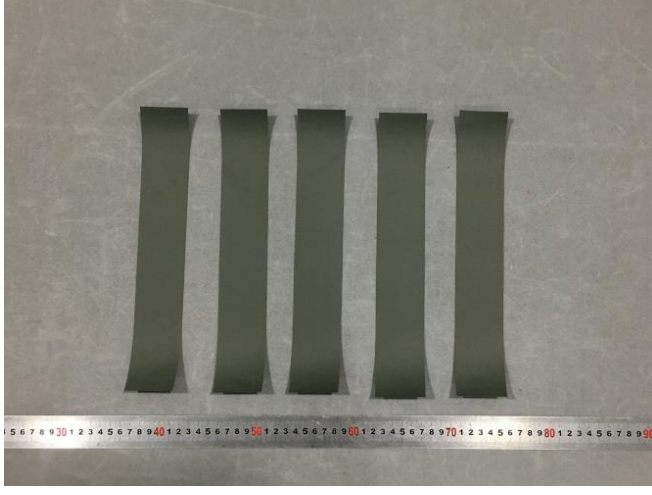
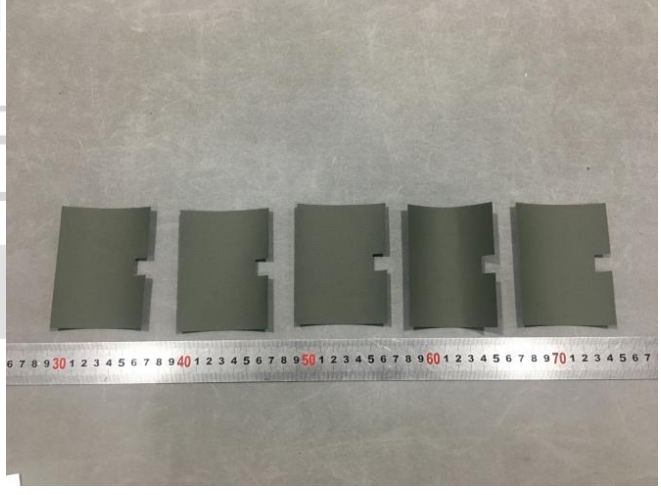
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Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

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Shanghai Branch, Testing Center
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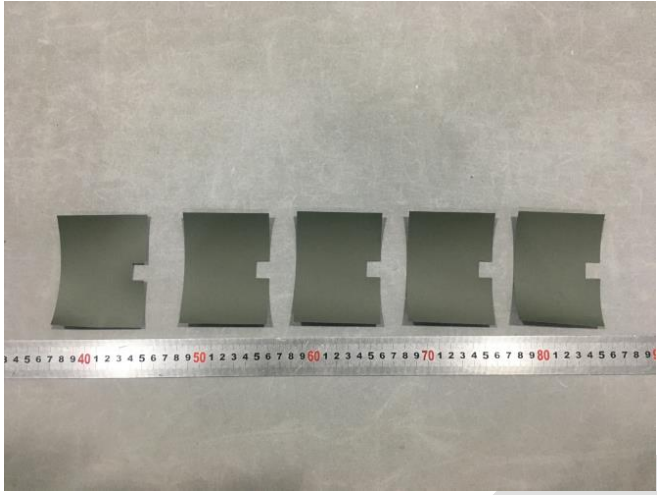
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Shanghai Branch, TÜV SÜD Group
Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

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 Report

No.: 70.404.25.11034.04

Dated: 2025-04-30



Test Results:

1. Tensile test:

Test method : ISO 13934-1:2013
Test condition : 23.5°C, 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

Test Report

No.: 70.404.25.11034.04

Dated: 2025-04-30



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):

1. UV exposure and tensile test

Conclusions:

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:

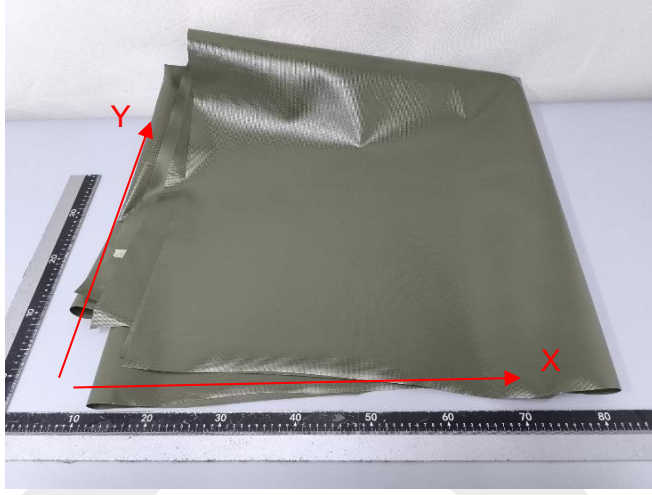
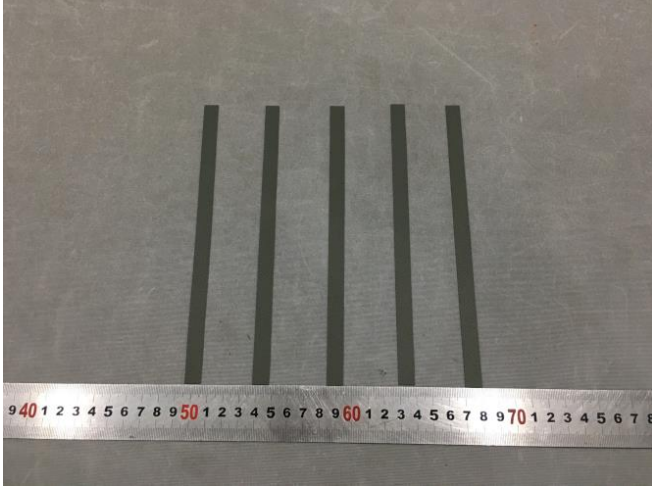

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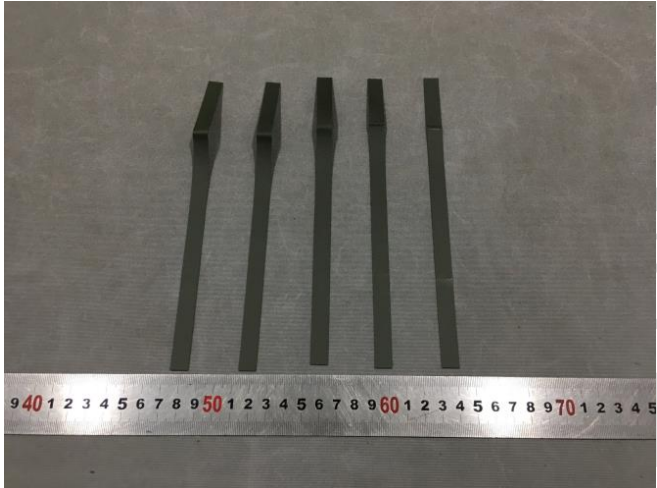
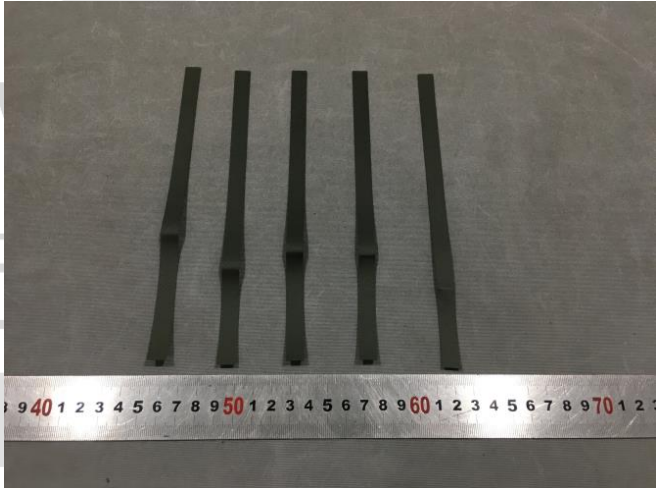
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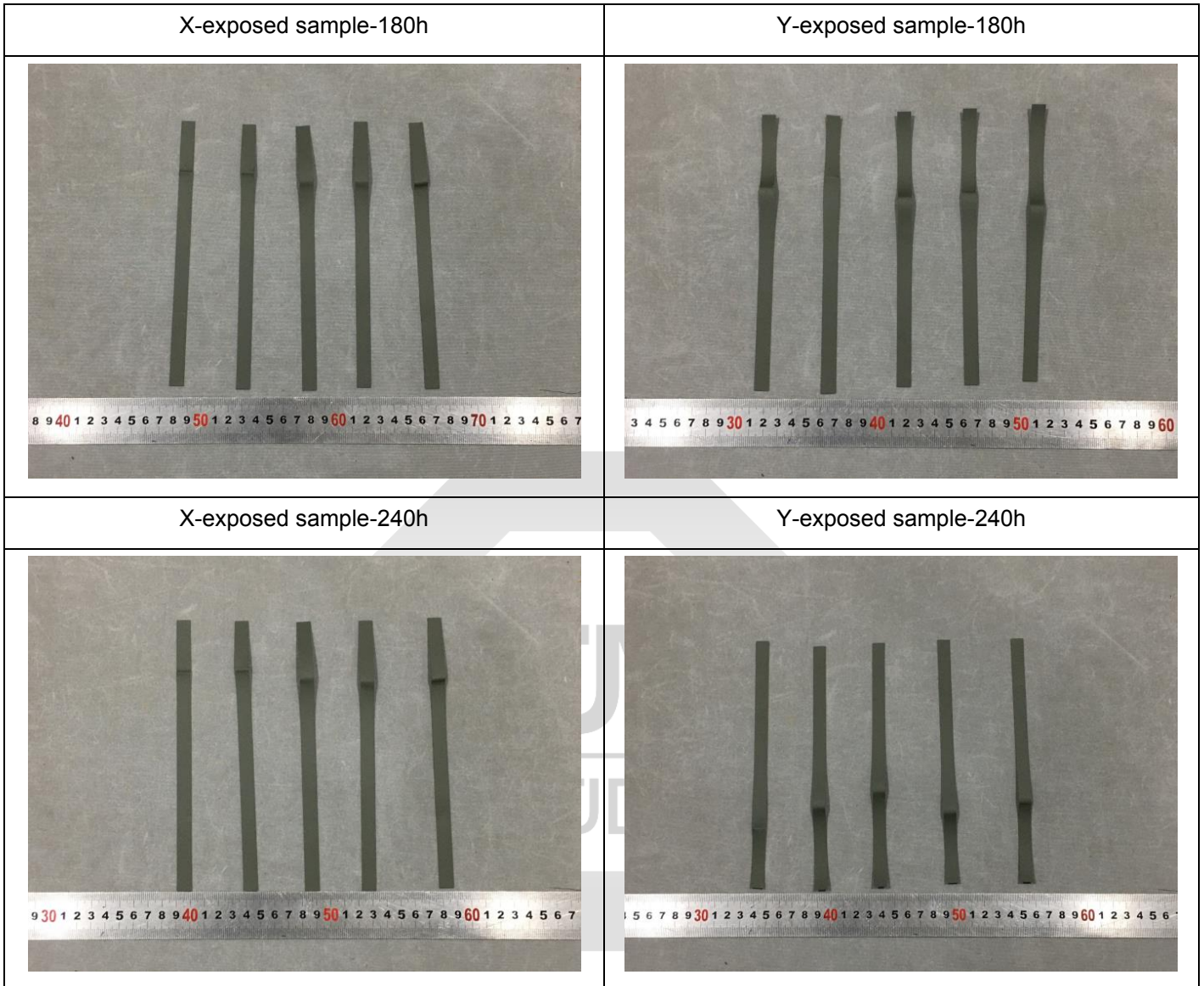
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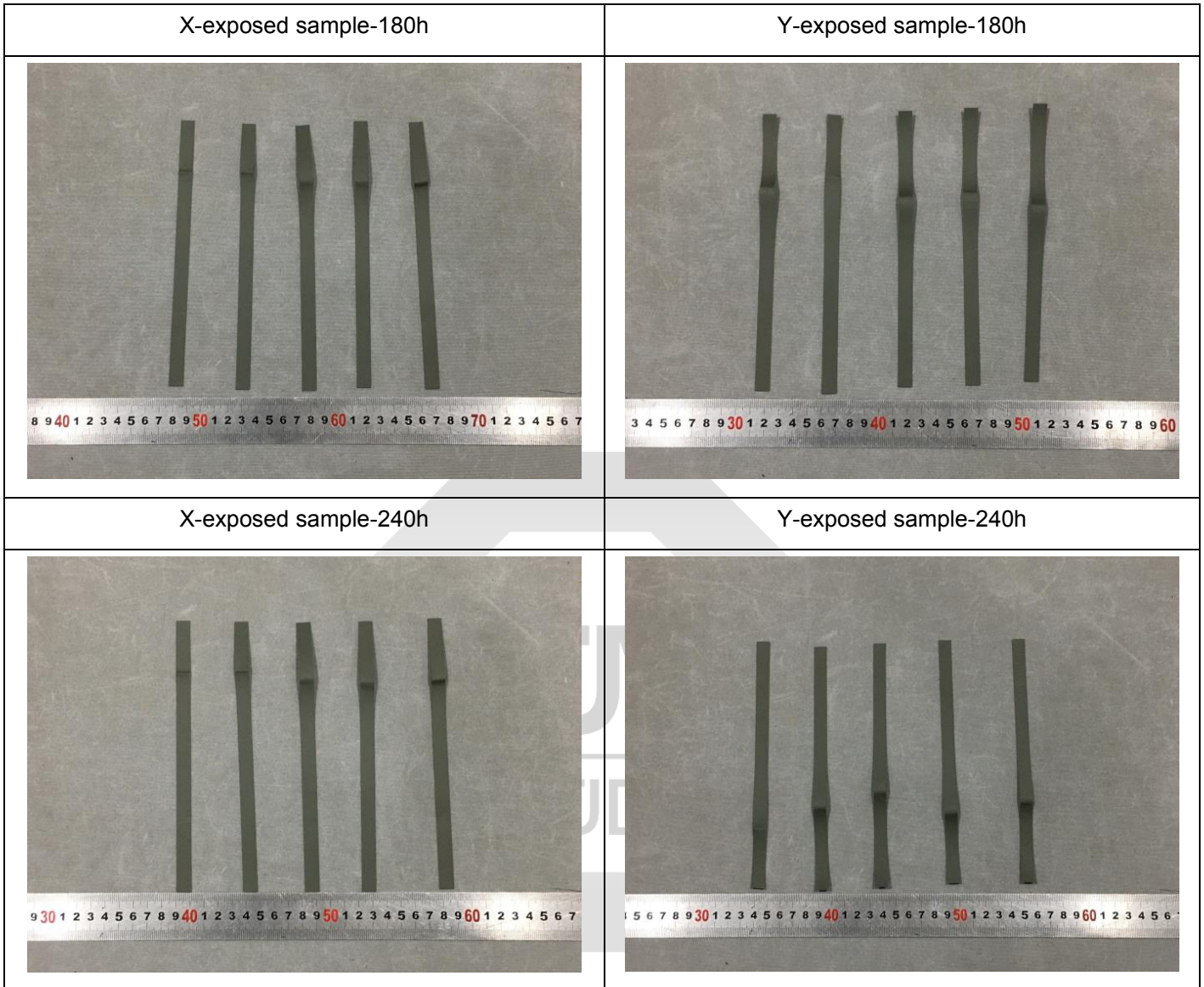
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Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

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
	





Test Report

No.: 70.404.25.11034.07

Dated: 2025-05-13



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	UVA-	(0.76 ±0.02)W/m ² @340nm	60°C ± 3°C
	4h condensation	340(type 1A)	UV lamps off	50°C ± 3°C

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.

Test Report

No.: 70.404.25.11034.01

Date: 2025-04-27



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

Prepared by:

Authorized by:



Jenny Yao
Technical Engineer

Sawyer Tang
Technical Manager

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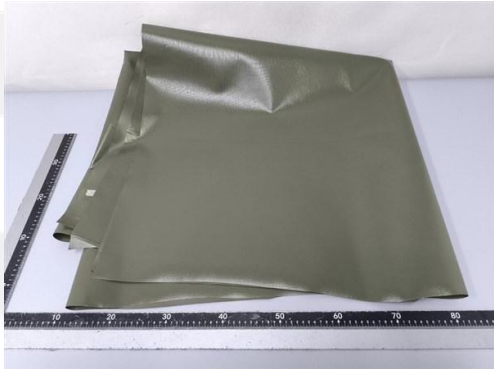

Test Report

No.: 70.404.25.11034.01

Date: 2025-04-27



Description of Tested Subject:

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

Test Report

No.: 70.404.25.11034.01

Date: 2025-04-27



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 (DBA _h A)	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-





Test Report

No. AJD201106078

Date: JAN.18, 2012

Page 1 of 6

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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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	$F_s \leq 150$ 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	$\Delta T \leq 30^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0\text{MJ/kg}$ ^a and $PCS \leq 2.0\text{MJ/kg}$ ^{b,c} and $PCS \leq 1.4\text{MJ/m}^2$ ^d and $PCS \leq 2.0\text{MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a or	and $\Delta T \leq 50^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f \leq 20\text{ s}$	-
	EN ISO 1716		-
	EN 13823	$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823 and	$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	60s 内 $F_s \leq 150\text{mm}$	
C	EN 13823 and	$FIGRA \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 15\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823 and	$FIGRA \leq 750\text{W/s}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 ⁱ Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles ^h

To be continued...

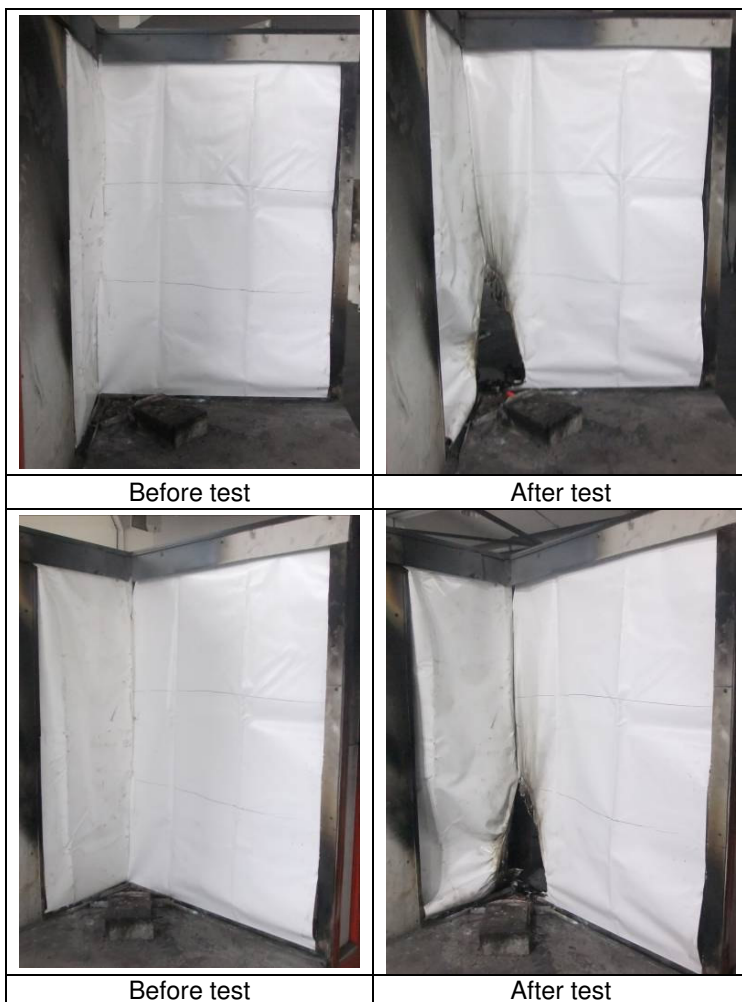
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F	No performance determined
<p>^a For homogeneous products and substantial components of non-homogeneous products.</p> <p>^b For any external non-substantial component of non-homogeneous products.</p> <p>^c Alternatively, any external non-substantial component having a PCS $\leq 2,0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: FIGRA $\leq 20 \text{ W/s}$, and LFS < edge of specimen, and THR_{600s} $\leq 4,0 \text{ MJ}$, and s1, and d0.</p> <p>^d For any internal non-substantial component of non-homogeneous products.</p> <p>^e For the product as a whole.</p> <p>^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.</p> <p>s1 = SMOGRA $\leq 30\text{m}^2/\text{s}^2$ and TSP_{600s} $\leq 50\text{m}^2$; s2 = SMOGRA $\leq 180\text{m}^2/\text{s}^2$ and TSP_{600s} $\leq 200\text{m}^2$; s3 = not s1 or s2</p> <p>^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.</p> <p>^h Pass = no ignition of the paper (no classification); Fail = ignition of the paper (d2 classification).</p> <p>ⁱ Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.</p>	

To be continued...

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Photo Appendix:



End of Report

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