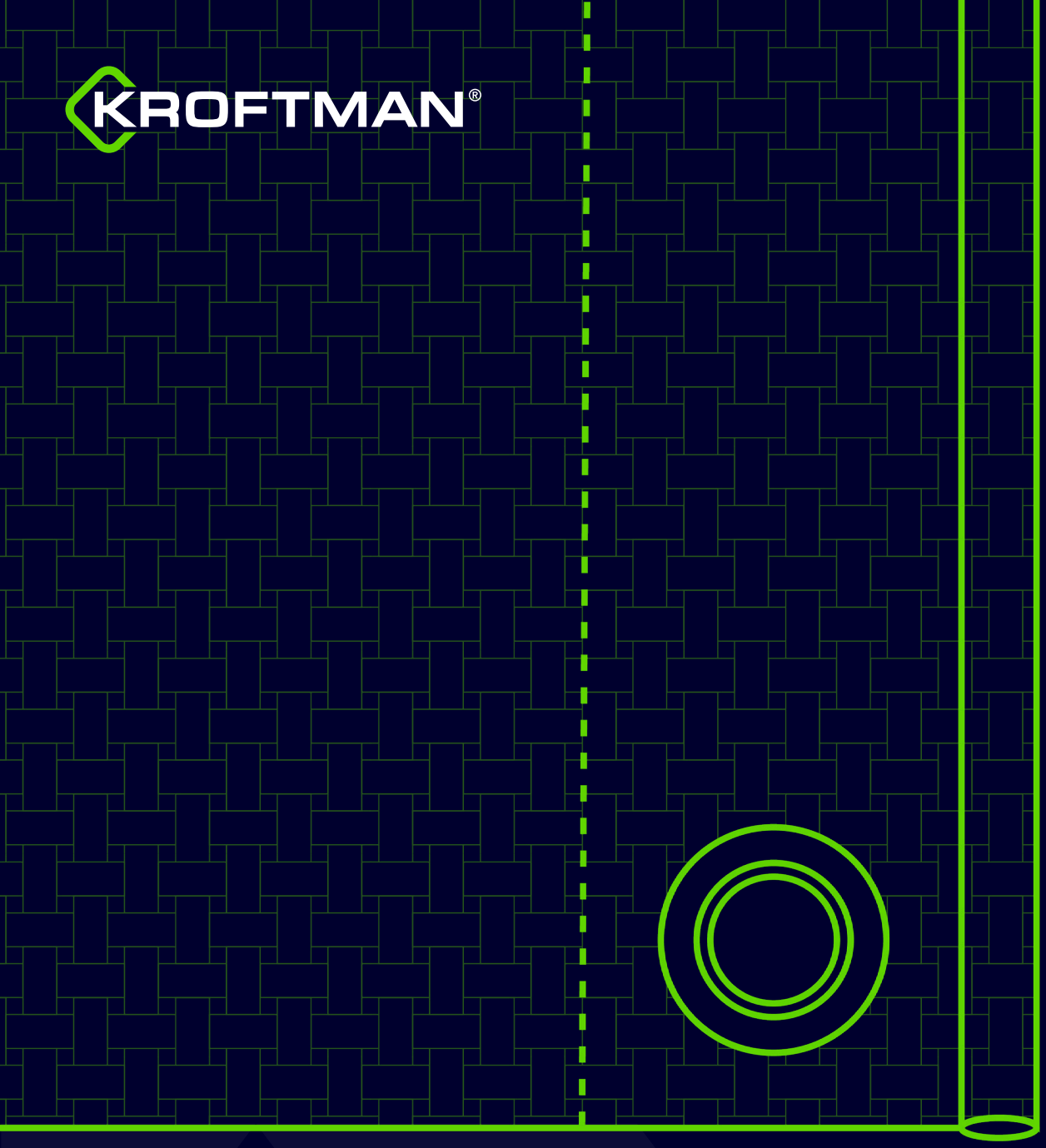
KROFTMAN®

BUILD IT.
STORE IT.
FIX IT.



ZEILRAPPORT PVC

EUROCODES · koninklijke metaalunie · IFBS · FEDERATION OF EUROPEAN FEDESSA SELF STORAGE ASSOCIATIONS · ssa self storage association United Kingdom

WE'VE GOT YOU COVERED

BUILD IT.
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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!

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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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(3) **The testing results are only valid for the sample tested.**

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(5) **Disclaimer Measurement Uncertainty:**
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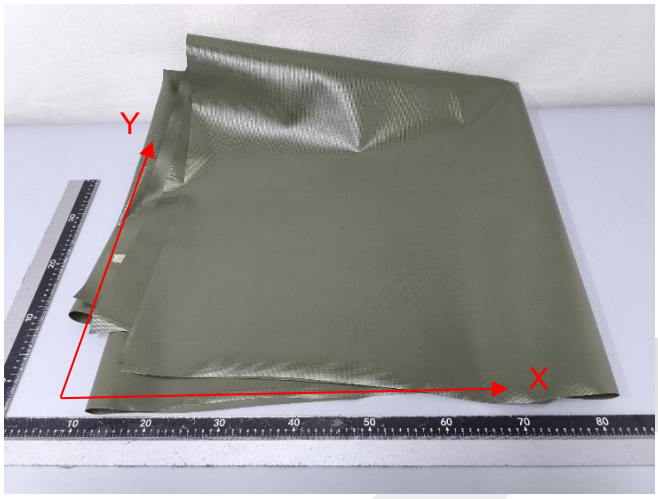
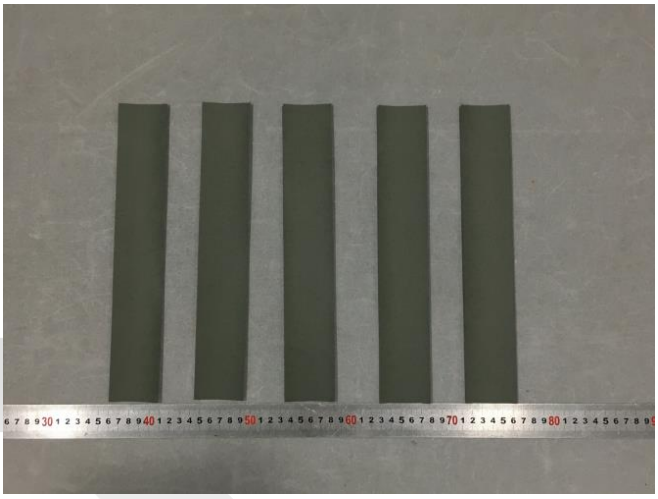
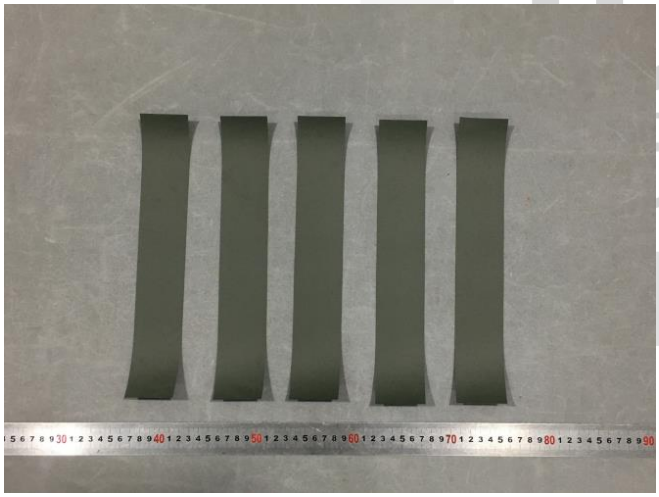
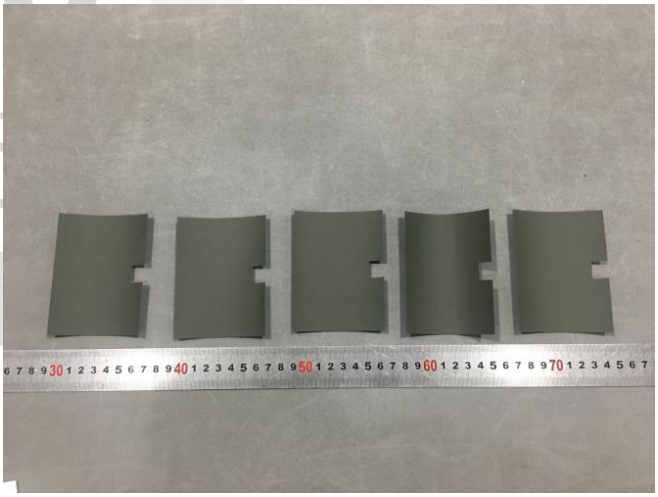
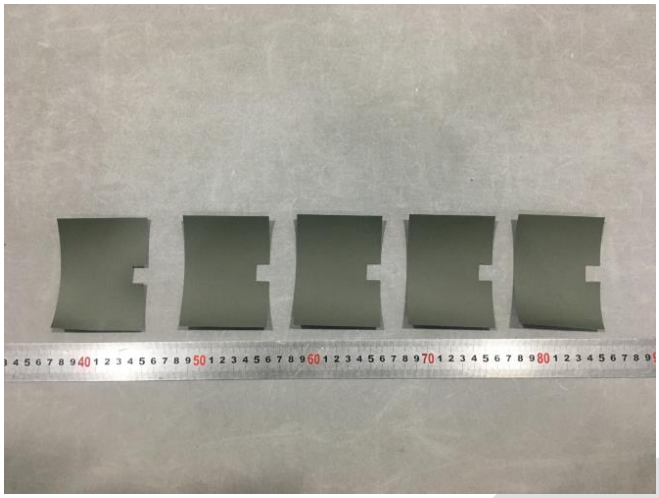
Description of the test subject:

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):

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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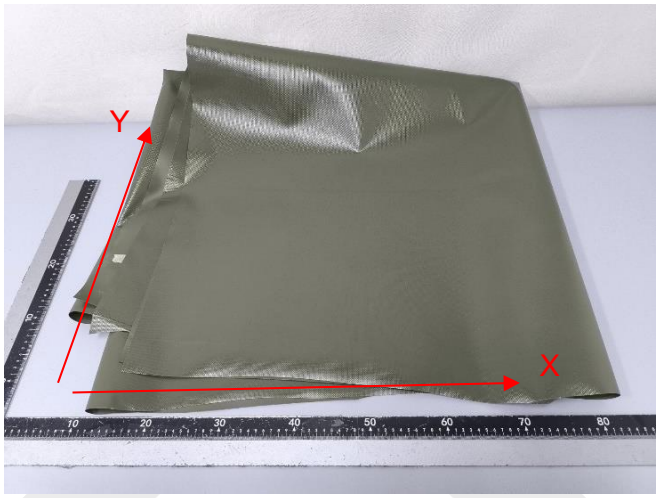
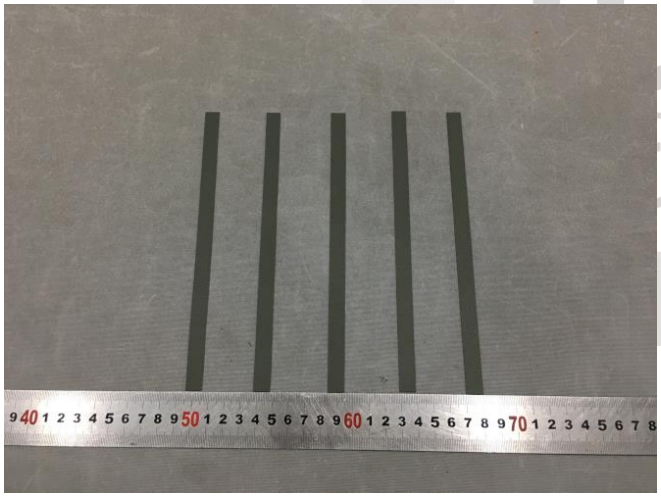
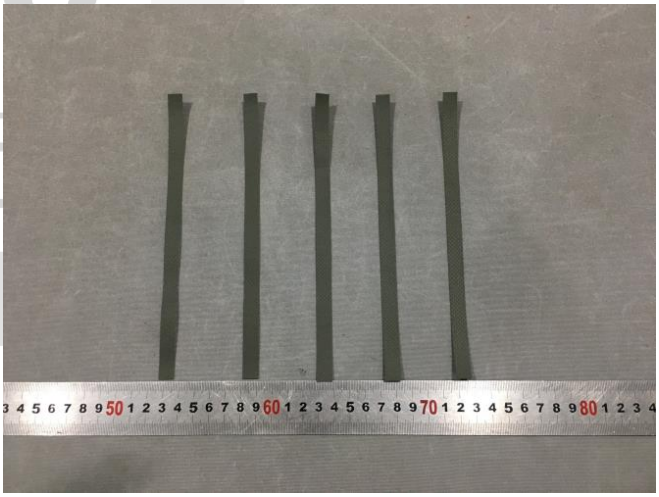
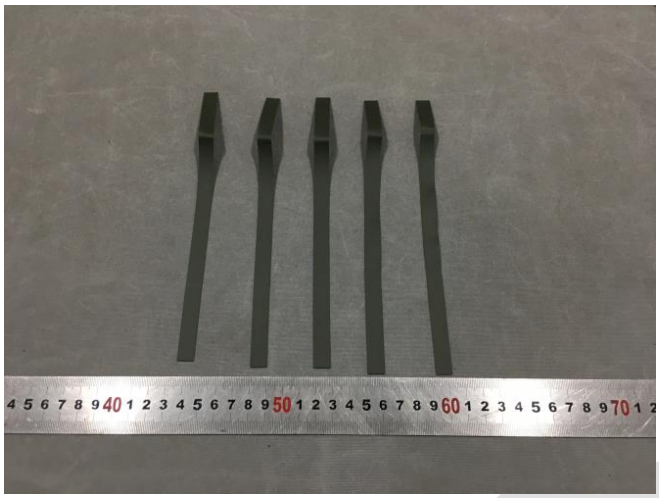
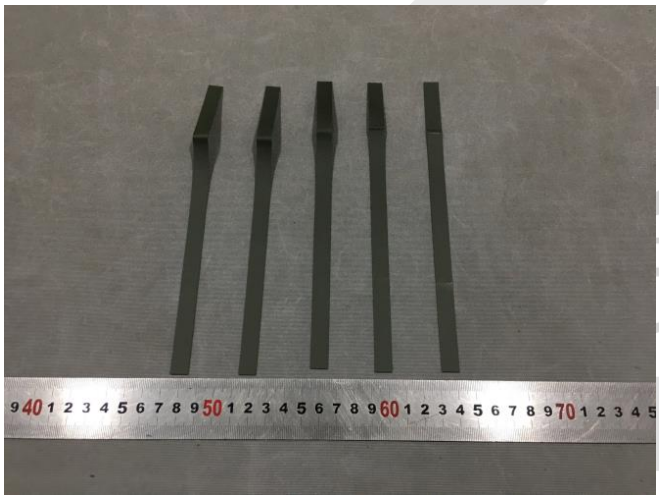
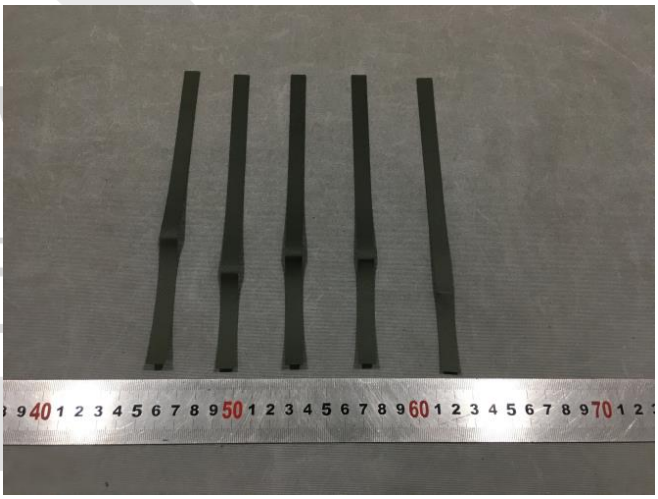
Description of the test subject:

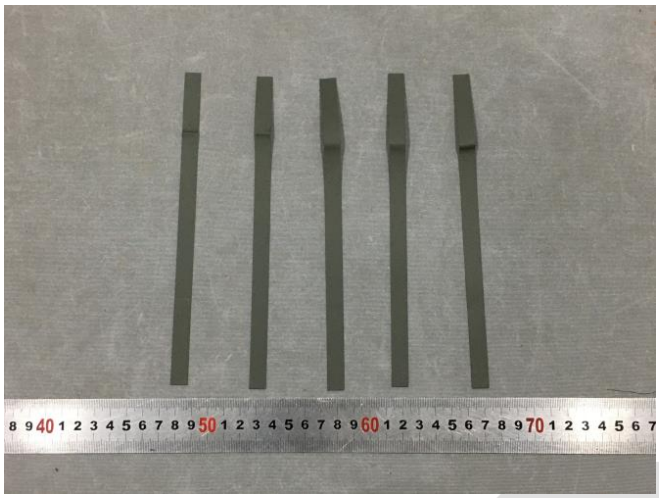
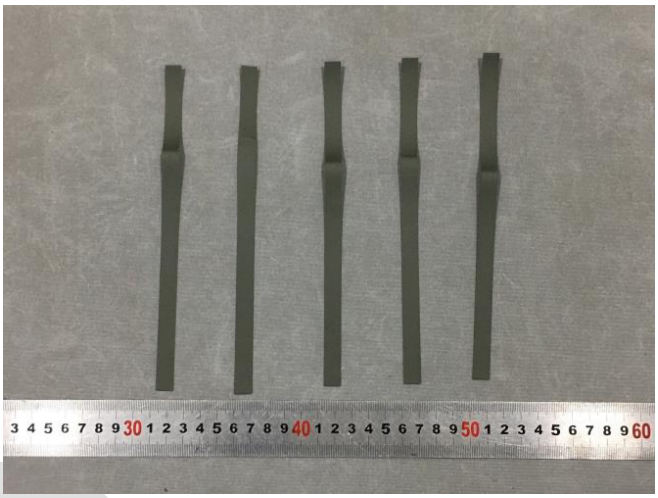
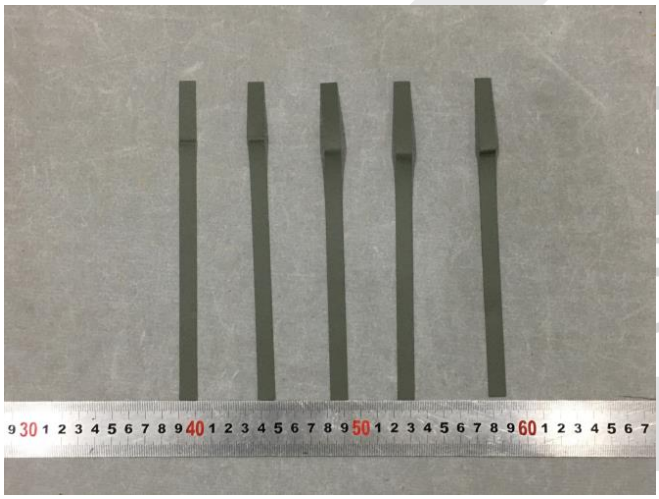
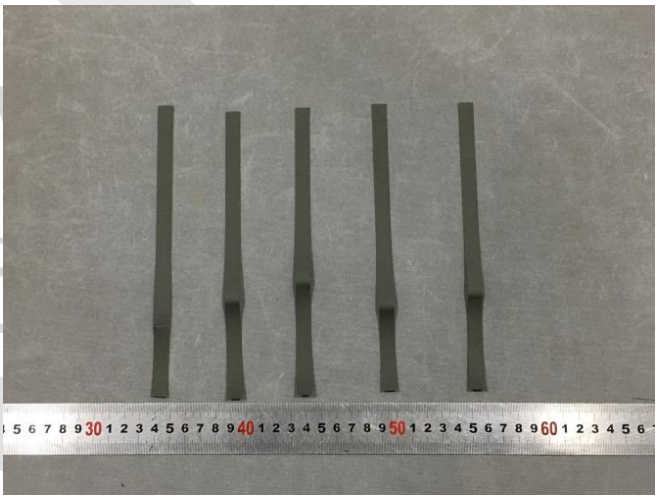
1	**Product Description**	White fabric

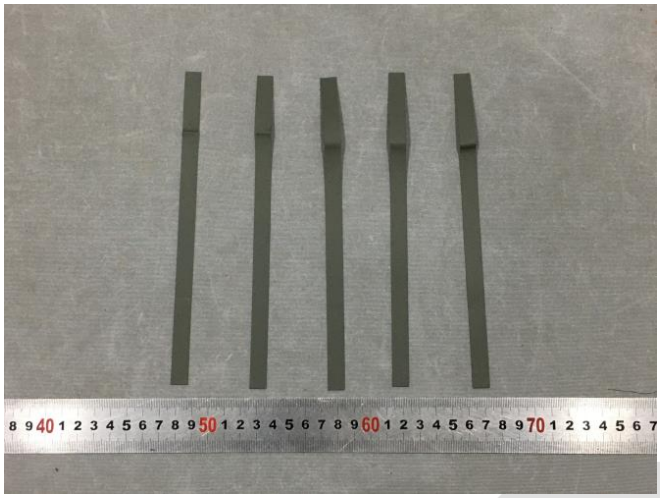
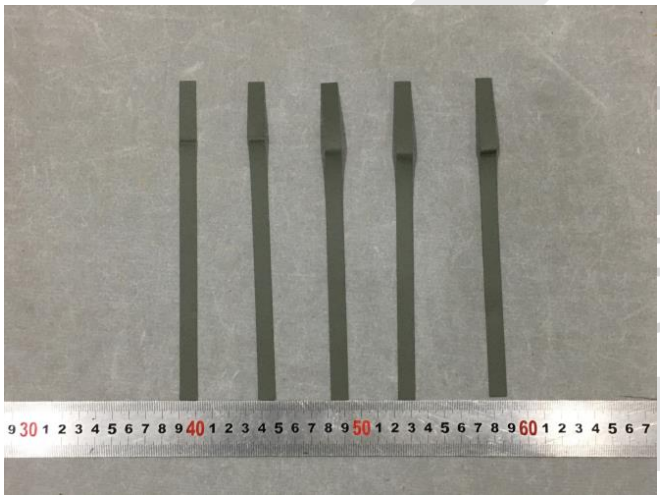
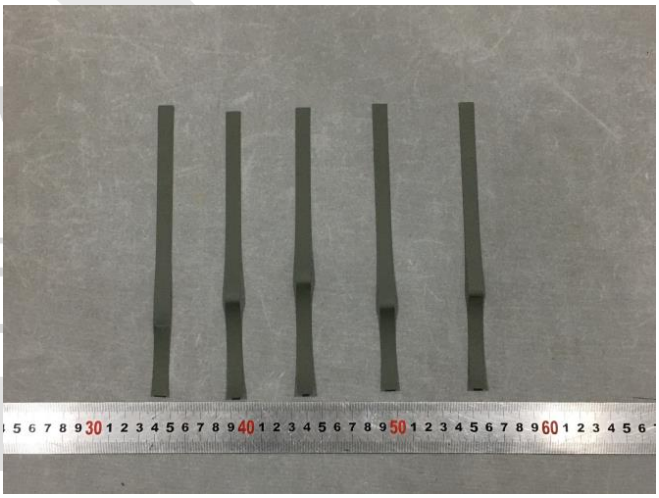
As received



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**
	

Laboratory:
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Shanghai Branch, Testing Center
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TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch, TÜV SÜD Group
Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

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/m²@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:

Jenny Yao
Technical Engineer

Authorized by:

Sawyer Tang
Technical Manager

Note:

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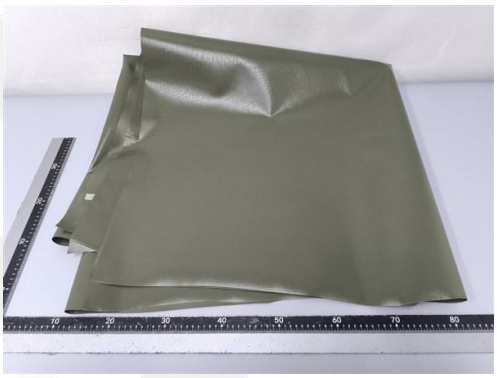
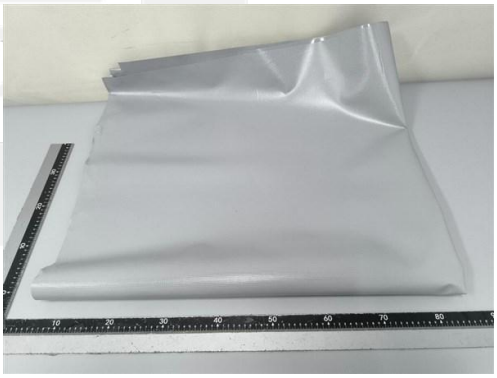
Description of Tested Subject:

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

SGS-CSTC Standards Technical Services Co., Ltd.
Anji Branch Testing Service for Hardgoods Laboratory.
No.301,Yangguang Avenue,District 2, Sunlight Industrial Zone, Anji County, Zhejiang Province,China 313300 t (86-572) 5018825 f (86-572) 5018829 www.cn.sgs.com
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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		$\triangle T$≤30℃, and $\triangle m$≤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	$\triangle T$≤50℃, and $\triangle m$≤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 60 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.

To be continued…

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Photo Appendix:

	
Before test	After test
	
Before test	After test

End of Report

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