



# FABRIC TEST REPORT **PE**



# DEAR READER,

This combined document contains all test reports for the PE tarpaulin that we use in our shelters. The document shows how strong the material is, how it behaves in extreme cold, and how it reacts to fire, including the corresponding measurement values and SGS test report numbers.

The reports demonstrate that the tarpaulin is sufficiently strong, shows no visible damage at low temperatures and meets the requirements for flame-retardant materials used in tents and similar applications. Based on these tests, you can assess whether the PE tarpaulin is suitable for your application.

This document includes, among others, the following tests:

- A tensile test that measures how much force the tarpaulin can withstand before it tears (ASTM D5035-11).
- A low-temperature test at -50 °C for 16 hours, checking whether cracks or other damage occur on the surface.
- A fire test according to CPAI-84 (2021), a standard for flame-resistant tent fabrics, including testing after water exposure and accelerated ageing (UV and condensation).

## QUESTIONS?

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

+31 26 700 9 700

sales@kroftman.com



## TEST REPORT

No. : TJMR251200807101

Date : Jan 06, 2026

Page: 1 of 4



CUSTOMER NAME: Qingdao Henglian Plastic Co.,Ltd.  
ADDRESS: No.67, Zhangjia 1st Road,Duanpolan Town, Jimo District, Qingdao City,  
Shadong Province

Sample Name : PE TARPAULIN

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

SGS Ref. No. : SHRT25000980R03  
Date of Receipt : Dec 31, 2025  
Testing Start Date : Dec 31, 2025  
Testing End Date : Jan 06, 2026  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services (Tianjin) Co., Ltd.



Jenarry Liu  
Authorized signatory



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## TEST REPORT

No. : TJMR251200807101

Date : Jan 06, 2026

Page: 2 of 4

### Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Cold Test	Provided by client	No visible cracks, spalling or other defects on the surface	Pass

Note: Pass : Meet the requirements;  
 Fail : Does not meet the requirements;  
 / : Not Apply to the judgment.



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# TEST REPORT

No. : TJMR251200807101

Date : Jan 06, 2026

Page: 3 of 4

1. Test Item: Cold Test

Sample Description: A-sheet

Test Method: Provided by client

Test Condition:

Test temperature: -50° C

Test duration: 16h

Lab Environmental Condition: 15°C - 35°C, 25%RH - 75%RH

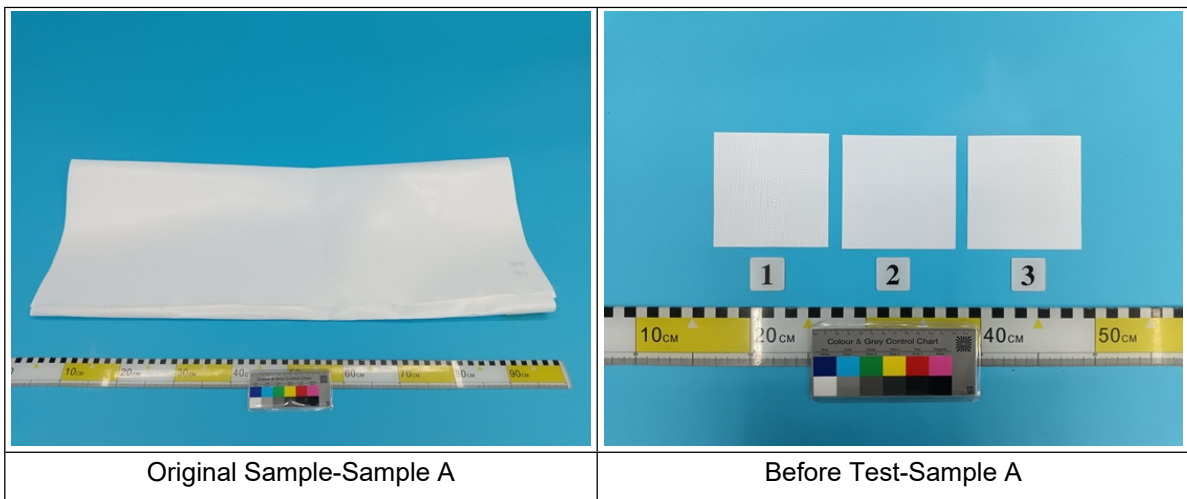
Test Result:

Sample A

Test Item	Test Result	Requirement	Conclusion
Cold Test	No visible cracks, spalling or other defects on the surface	No cracks, spalling or other defects on the surface	Pass

Note: Test specimens were cut from the sample.

Test Photo:



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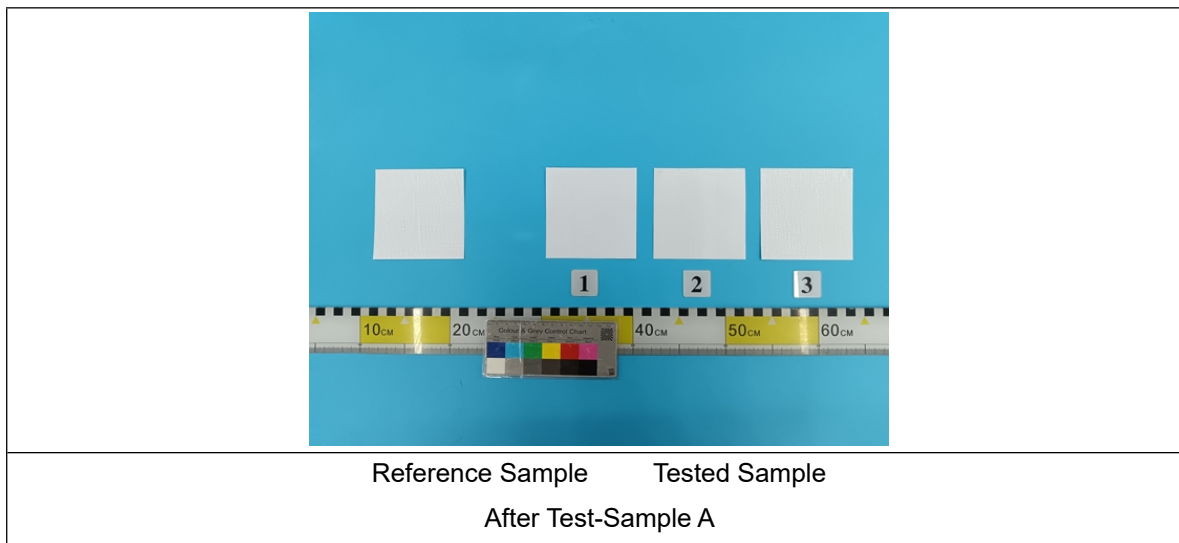
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# TEST REPORT

No. : TJMR251200807101

Date : Jan 06, 2026

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Rapid Temperature Change Test Chamber	MS-KSWB-512L	POL-424	2025-12-01	2026-11-30

Appendix information:

\*Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

\*The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc. and just for client internal reference.

\*\*\*\*\* End of report\*\*\*\*\*



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**QINGDAO HENGLIAN PLASTIC CO., LTD.**

NO. 67, ZHANGJIA 1ST ROAD, DUANPOLAN TOWN, JIMO DISTRICT, QINGDAO CITY, SHADONG PROVINCE

**Sample Name** : PE TARPAULIN**Style/Item No.** : /

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.** : SHRT25000980R01**Sample Receiving Date** : Dec 30,2025**Testing Period** : Dec 30,2025 to Jan 09,2026**Test Required** : CPAI-84 A specification for flame-resistant materials used in camping tentage 2021 Revision.**Test result(s)** : See attached sheet

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



\_\_\_\_\_  
Echo Li  
Approved signatory

Scan to see the report

AJFTS25009184R01  
Verification:  
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Anji Branch Inspection & Testing Service

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**Sample Information**

Tent type	Test method	Requirement
<input checked="" type="checkbox"/> intended principally for commercial or industrial use, or <input checked="" type="checkbox"/> which have an area of greater than 200 square feet in area	CPAI-84	Performance requirement: CPAI-84 Labeling requirement: CPAI-84
<input type="checkbox"/> intended principally for recreational use and having an area of equal to or less than 200 square feet in area	ASTM F3431	Performance requirement: ASTM F3431 Labeling requirement: CPAI-84

Material Type (CPAI-84)	<input checked="" type="checkbox"/> Wall and top material <input type="checkbox"/> Flooring material
Material Type (ASTM F3431)	<input type="checkbox"/> Wall material and top material <input type="checkbox"/> Flooring material (That extend a distance of 305 mm or more up the side of a tent; These do not come into contact with the ground during use of the tent, such as flooring materials of suspended tents or tent cots) <input type="checkbox"/> Flooring material (All other flooring materials, including flooring materials that extend up the side of a tent a distance of up to but not including 305 mm) <input type="checkbox"/> Not clarify

**Conclusion:**  Pass,  Fail.

**Statement:** 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.



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**Test Conducted**

The test was conducted in accordance with CPAI-84 A specification for flame-resistant materials used in camping tentage 2021 Revision, section 6 Flammability test method, wall and top material.

**Test Specimen**

Description	PE tarpaulin
Color	White
Fabric weight	301 g/m <sup>2</sup>
Size of specimen	300 mm × 70 mm

**Conditioning:**

[√] 72 Hours water leaching;

[√] Accelerated Weathering: Clause 4.2.2.3, UV Flourescent and Condensation Method, 54 hours accelerated weathering.

Prior to testing, the specimens were conditioned at a temperature of (21±1)°C and a relative humidity of (65±2)% until the moisture equilibrium.

**Test Result**

Specimen No. (As received)	Damaged length (mm)		After-flame (s)		Flaming broken or flaming debris (Yes/No)	
	Lengthwise	Widthwise	Lengthwise	Widthwise	Lengthwise	Widthwise
1	110	108	0	0	No	No
2	106	103	0	0	No	No
3	108	104	0	0	No	No
4	105	102	0	0	No	No
Average	106		0			

Specimen No. (After leaching)	Damaged length (mm)		After-flame (s)		Flaming broken or flaming debris (Yes/No)	
	Lengthwise	Widthwise	Lengthwise	Widthwise	Lengthwise	Widthwise
1	109	111	0	0	No	No
2	105	104	0	0	No	No
3	112	108	0	0	No	No
4	107	105	0	0	No	No
Average	108		0			



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Specimen No. (After weathering)	Damaged length (mm)		After-flame (s)		Flaming broken or flaming debris (Yes/No)	
	Lengthwise	Widthwise	Lengthwise	Widthwise	Lengthwise	Widthwise
1	113	114	0	0	No	No
2	109	107	0	0	No	No
3	114	111	0	0	No	No
4	110	108	0	0	No	No
Average	111		0			

**Performance Requirement:**

1. No specimen from a sample unit of wall and top material shall have an after-flame time of more than 4s; the average after-flame time for all specimens in a sample unit shall not exceed 2s.
2. Portions or residues that break or drip from the test specimens shall not continue to flame after they reach the floor of the test cabinet.
3. These requirements include:  
Specimens that were unleached and unweathered.  
Specimens that were leached but unweathered.  
Specimens that were weathered but unleached.
4. Damaged length, using the procedure described in Sections 6.4.5 and 6.4.6, the maximum permissible damaged for the sample unit and individual specimens shall not exceed the values shown as follows Table.

Roll Material Weight (g/m <sup>2</sup> )	Maximum Average Damaged Length for Sample Unit (mm)	Maximum Damaged Length for an Individual Specimen (mm)
[ ] More than 340	115	255
[ √ ] More than 270 but not more than 340	140	255
[ ] More than 200 but not more than 270	165	255
[ ] More than 135 but not more than 200	190	255
[ ] More than 50 but not more than 135 *	215*	255*
[ ] 50 ** or less	230*	255*

**\* ALTERNATE PROCEDURE:**

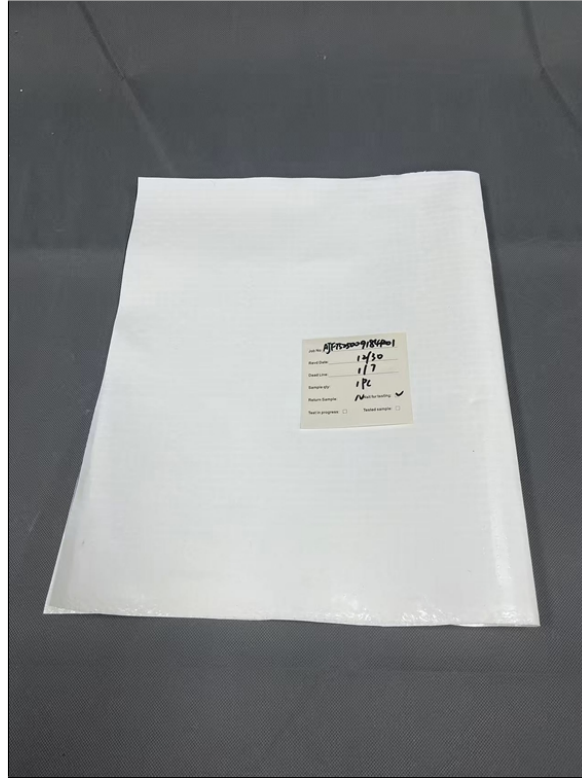
Any wall or top material with a mass of less than 100 g/m<sup>2</sup> will be considered acceptable if the mass loss during the test is no greater than 5 percent of the original test specimen mass, regardless of the damaged length measurement.



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**Photo Appendix:**



SGS authenticate the photo on original report only

\*\*\*End of Report\*\*\*



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## TEST REPORT

No. : TJMR251200807001

Date : Jan 08, 2026

Page: 1 of 5



CUSTOMER NAME: Qingdao Henglian Plastic Co.,Ltd.  
ADDRESS: No.67, Zhangjia 1st Road,Duanpolan Town, Jimo District, Qingdao City, Shadong Province

Sample Name : PE TARPAULIN

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

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SGS Ref. No. : SHRT25000980R02  
Date of Receipt : Dec 31, 2025  
Testing Start Date : Dec 31, 2025  
Testing End Date : Jan 08, 2026  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services (Tianjin) Co., Ltd.

Doris Liang  
Authorized signatory



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# TEST REPORT

No. : TJMR251200807001

Date : Jan 08, 2026

Page: 2 of 5

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Breaking Force	ASTM D5035-11(Reapproved 2024)	See result	/

Note: Pass : Meet the requirements;  
 Fail : Does not meet the requirements;  
 / : Not Apply to the judgment.



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# TEST REPORT

No. : TJMR251200807001

Date : Jan 08, 2026

Page: 3 of 5

1. Test Item: Breaking Force

Sample Description: A-sheet

Test Method: ASTM D5035-11(Reapproved 2024)

Test Condition:

Specimen: 1C

Specimen Width: 25 mm

Testing Speed: 300 mm/min

Distance between the Clamps: 75 mm

Lab Environmental Condition: ( 23 ± 2 ) °C, ( 50 ± 5 ) %RH

Test Result:

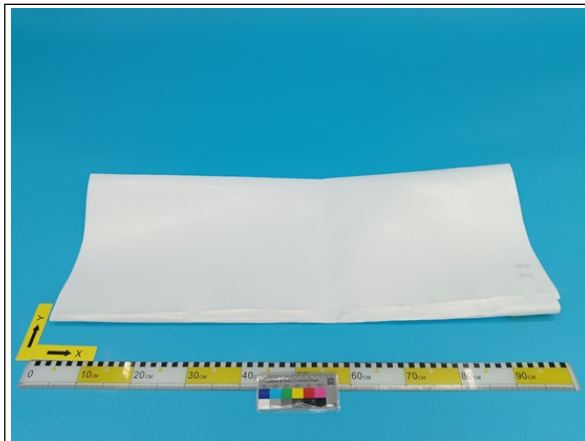
Sample A

Test Item	Test Result	
Breaking Force	Warp	936N
	Weft	814N

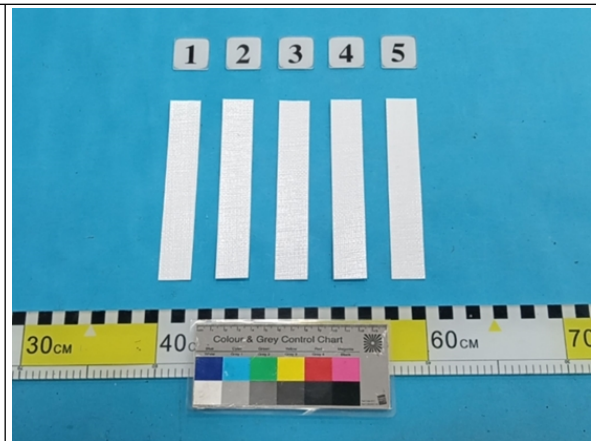
Note:

Test specimens were cut from the sample.

Test Photo:



Original Sample-Sample A-X: Weft/Y: Warp



Before Test-Sample A-Warp



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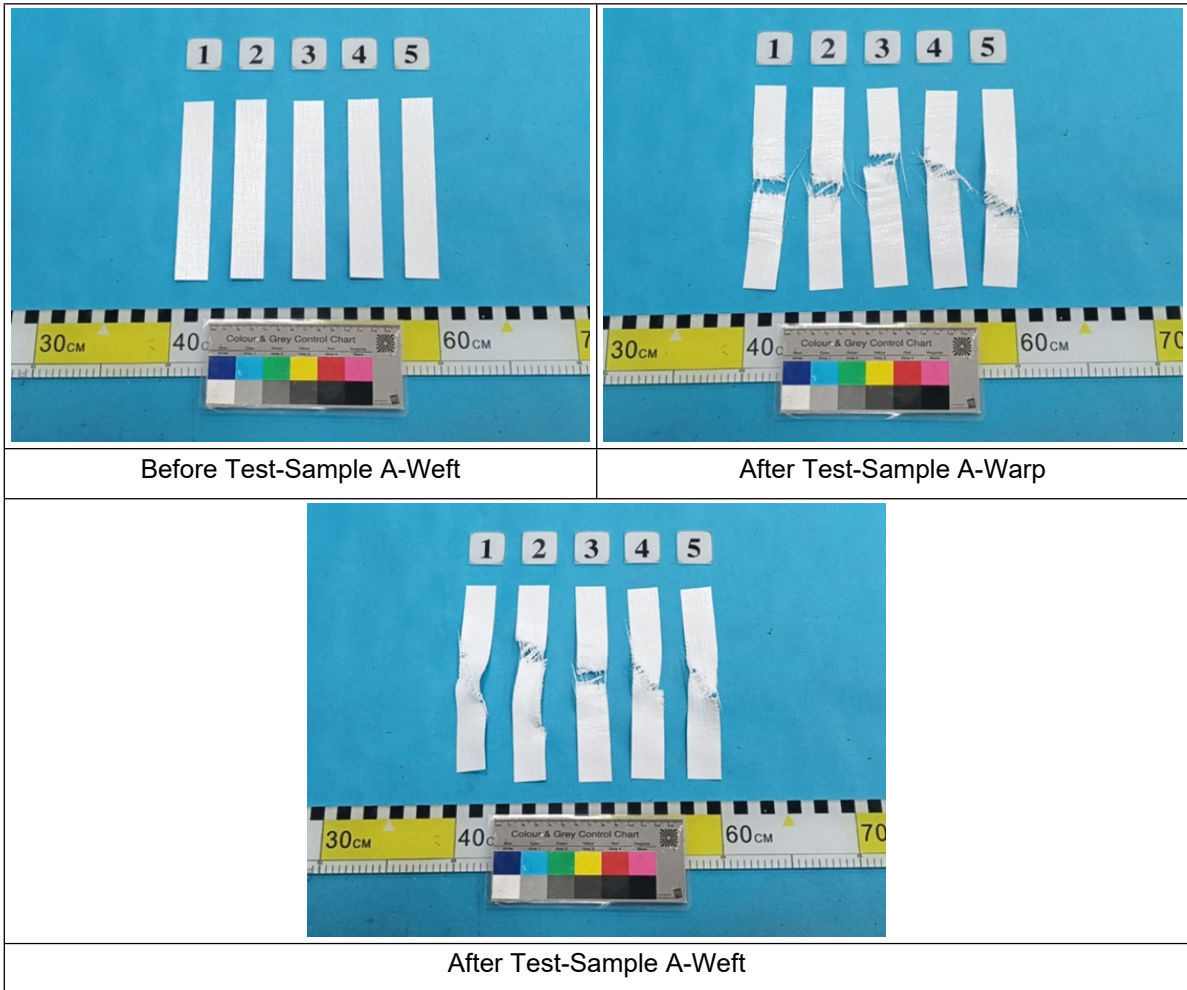
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## TEST REPORT

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# TEST REPORT

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	CMT4304	POL-116	2025-08-15	2026-08-14

Appendix information:

\*The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc. and just for client internal reference.

\*\*\*\*\* End of report\*\*\*\*\*



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