

TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 1 of 17



CUSTOMER NAME: ANHUI JIT NEW MATERIAL CO., LTD.
ADDRESS: NO.7, SONGQUAN EAST ROAD, XUANCHENG HI-TECH INDUSTRIAL DEVELOPMENT ZONE, ANHUI PROVINCE, CHINA

Sample Name : XPS INSULATION BOARD

Other Information : 1200x600x6, 1200x600x10, 1200x600x12, 1200x600x20,
1200x600x30, 1200x600x40, 1200x600x50, 1200x600x60,
1200x600x70, 1200x600x80, 1200x600x100 1250x600x6,
1250x600x10, 1250x600x12, 1250x600x20, 1250x600x30,
1250x600x40, 1250x600x50, 1250x600x60, 1250x600x70,
1250x600x80, 1250x600x100, 2400x600x10, 2400x600x12,
2400x600x20, 2400x600x30, 2400x600x40, 2400x600x50,
2400x600x60, 2400x600x70, 2400x600x80, 2400x600x100,
2500x600x10, 2500x600x12, 2500x600x20, 2500x600x30,
2500x600x40, 2500x600x50, 2500x600x60, 2500x600x70,
2500x600x80, 2500x600x100

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.

Date of Receipt : 2025-06-24
Testing Period : 2025-06-24 ~ 2025-08-27
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 Co., Ltd. Guangzhou
Branch.

Quincey

Quincey Lee
Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155661 www.sgs.com.cn
t (86-20) 82155661 sgs.china@sgs.com

TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 2 of 17

Summary of Results:

No.	Test Item	Test Method	Result
1	Length and Width	EN 822:2013	Length: 1250 mm Width: 601 mm
2	Thickness	EN 823:2013	20mm
3	Squareness	EN 824:2013	See result
4	Flatness	EN 825:2013	Maximum:0.04 mm
5	Compressive Strength	EN 826:2013	453 kPa
6	Dimensional stability	EN 1604:2013	See result
7	Long Term Water Absorption	EN 12087:2013 Method 1A	0.14 kg/m ²
8	Tensile Strength Perpendicular to Faces	EN 1607:2013	800 kPa
9	Water Vapor Transmission Rate	EN 12086:2013	See result
10	Fire classification of construction products and building elements	EN ISO 11925-2:2020	See result



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155661 www.sgsgroup.com.cn
t (86-20) 82155661 sgs.china@sgs.com

TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 3 of 17

Test Item 1: Length and Width

Sample Description: See photo

Test Method: EN 822:2013

Test Condition:

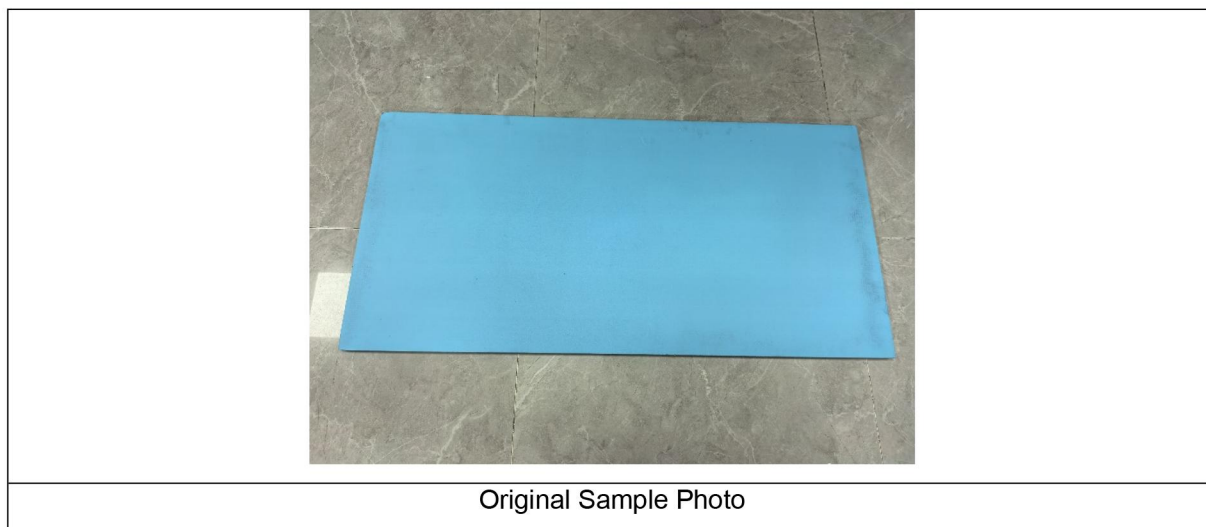
Specimen: 1250 mm×601 mm×20 mm

Condition: 23℃, 50%RH, 6h

Test Result:

Test Item	Test Result
Length and Width	Length: 1250 mm Width: 601 mm

Test Photo:



TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 4 of 17

Test Item 2: Thickness

Sample Description: See photo

Test Method: EN 822:2013

Test Condition:

Specimen: 1250 mm×601 mm×20 mm

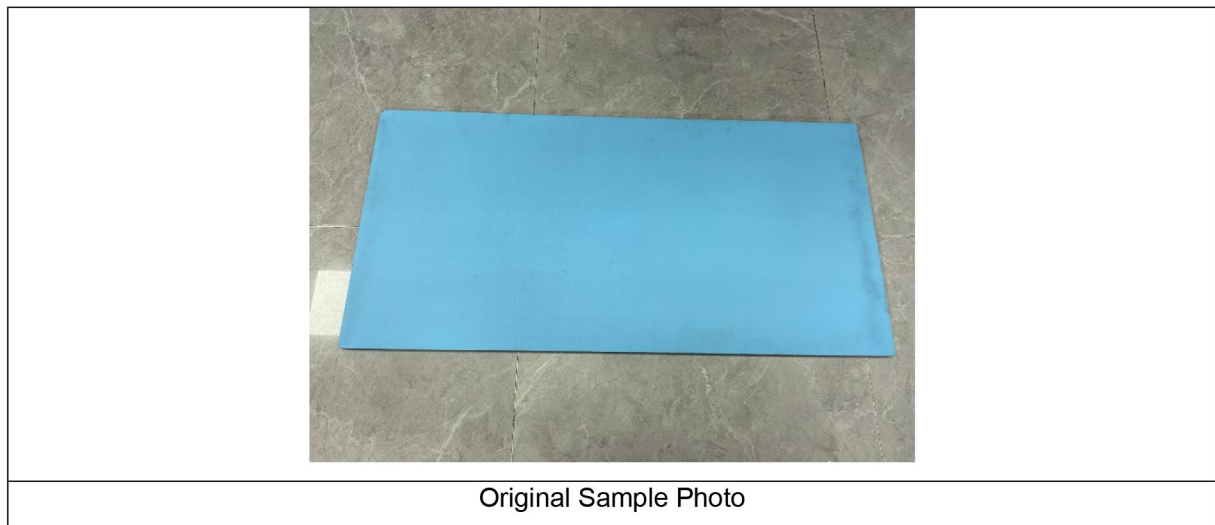
Condition: 23℃, 50%RH, 6h

Pressure: 50Pa

Test Result:

Test Item	Test Result
Thickness	20mm

Test Photo:



TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 5 of 17

Test Item 3: Squareness

Sample Description: See photo

Test Method: EN 824:2013

Test Condition:

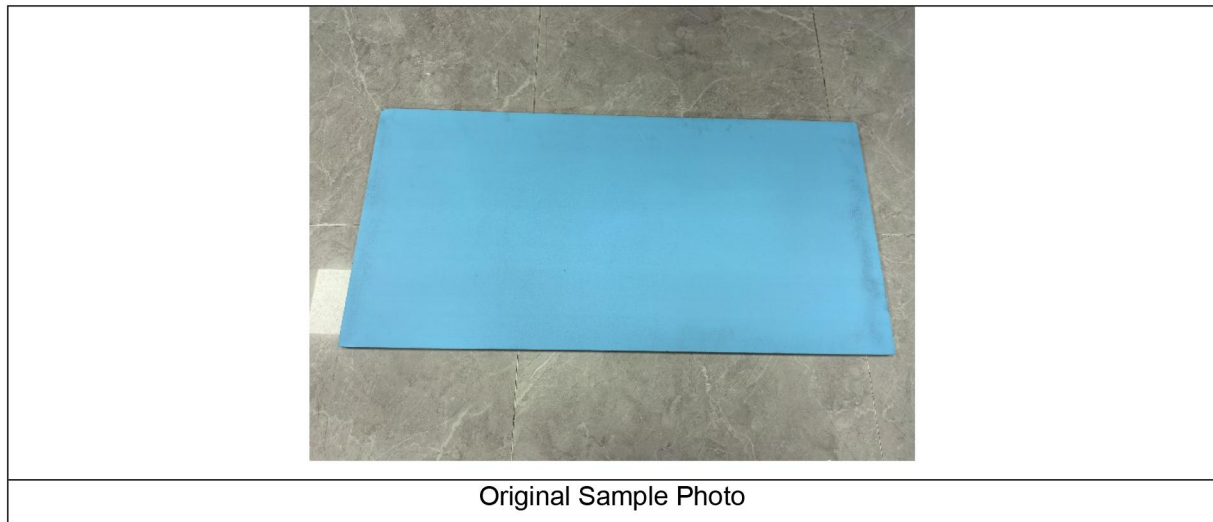
Specimen: 1250 mm×601 mm×20 mm

Condition: 23℃, 50%RH, 6h

Test Result:

Test Item	Test Result
The deviation from the squareness of the length and width edges	Maximum:0.15 mm/m
The deviation from the squareness of the Thickness edges	Maximum:0.04 mm

Test Photo:



TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 6 of 17

Test Item 4: Flatness

Sample Description: See photo

Test Method: EN 825:2013

Test Condition:

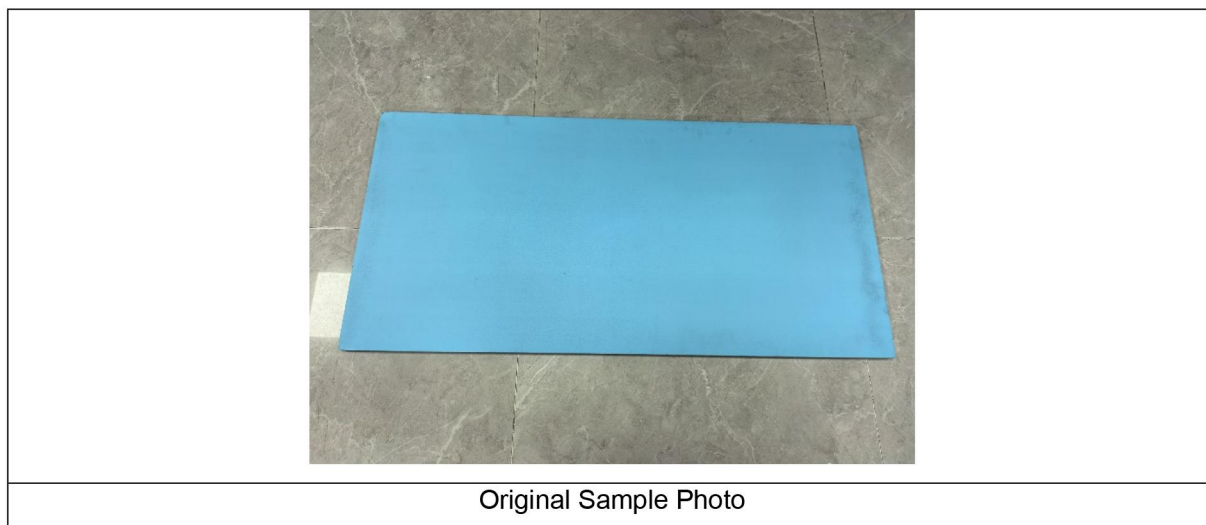
Specimen: 1250 mm×601 mm×20 mm

Condition: 23℃, 50%RH, 6h

Test Result:

Test Item	Test Result
Flatness	Maximum:0.04 mm

Test Photo:



TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 7 of 17

Test Item 5: Compressive Strength

Sample Description: See photo

Test Method: EN 826:2013

Test Condition:

Specimen: 50 mm×50 mm×20 mm

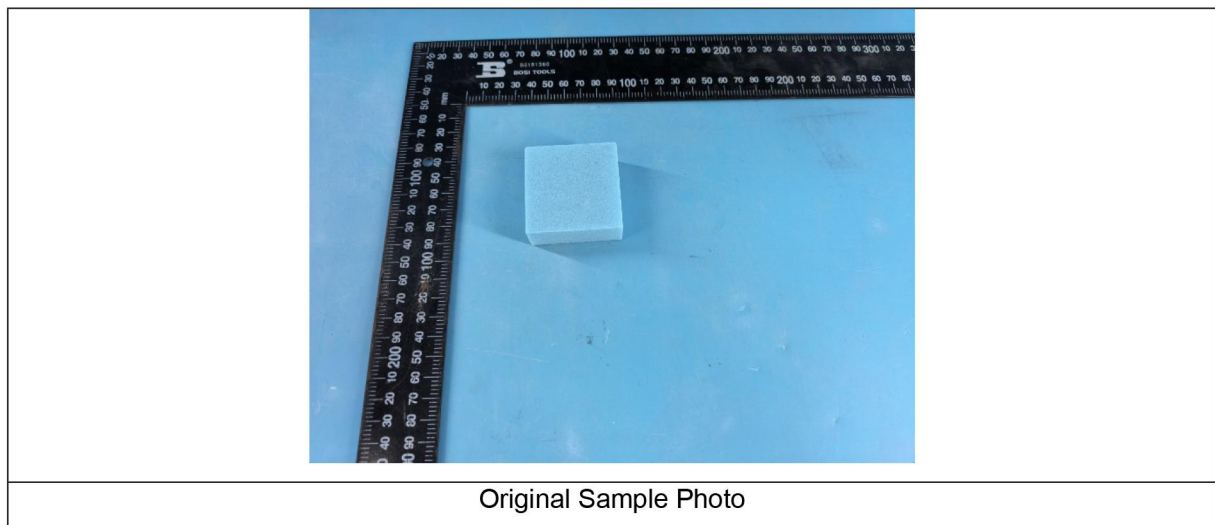
Condition: 23℃, 50%RH, 6h

Testing Speed: 2 mm/min

Test Result:

Test Item	Test Result
Compressive Strength	453 kPa

Test Photo:



TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 8 of 17

Test Item 6: Dimension stability

Sample Description: See photo

Test Method: EN 1604:2013

Test Condition:

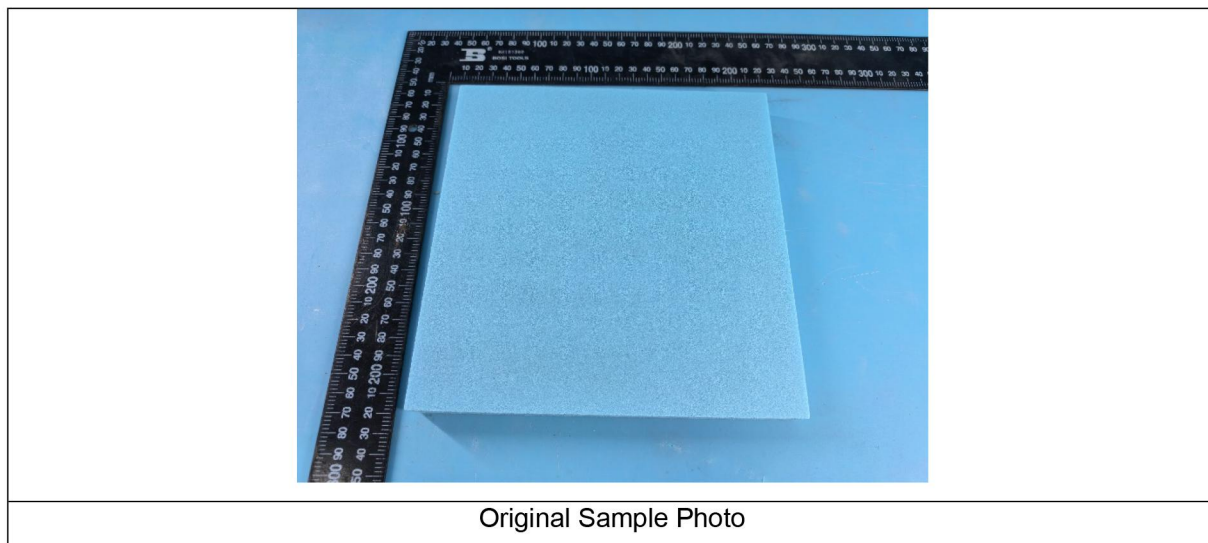
Specimen: 200 mm×200 mm×20 mm

Condition: 23.0℃, 50 %RH, 14d →70℃, 48h→23.0℃, 50 %RH, 3h

Test Result:

Test Item	Test Result
Dimension stability	Dimension change in length: -0.2% Dimension change in width: 0.4% Dimension change in thickness: -0.2%

Test Photo:



TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 9 of 17

Test Item 7: Long Term Water Absorption

Sample Description: See photo

Test Method: EN 12087:2013 Method 1A

Test Condition:

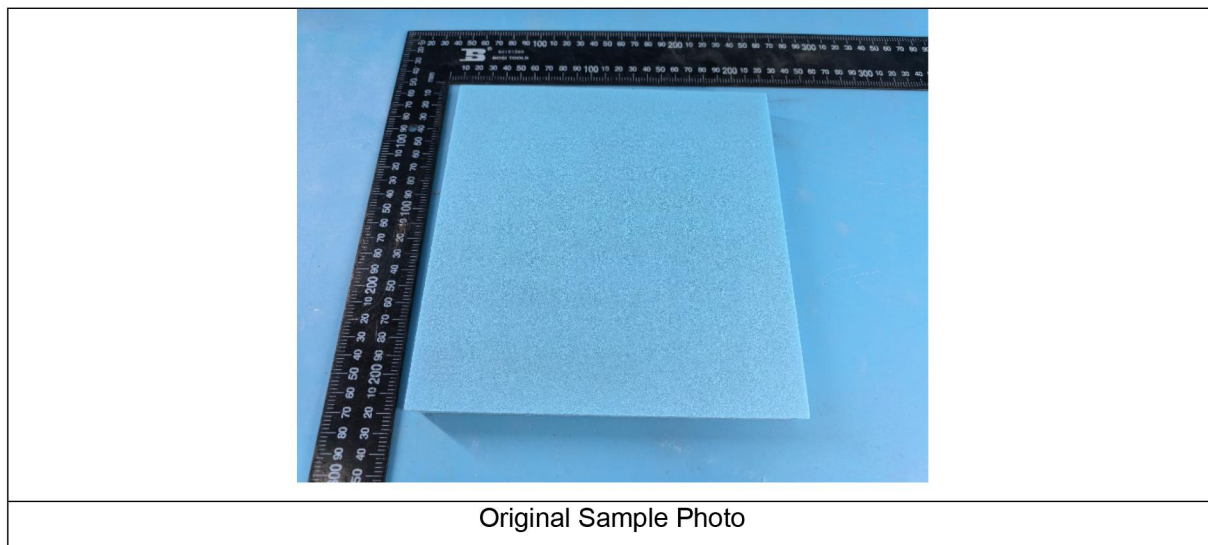
Specimen: 200 mm×200 mm×20 mm

Condition: 23℃, 50%RH, 6h→Partial immersed 10mm in water for 28d

Test Result:

Test Item	Test Result
Long Term Water Absorption	0.14 kg/m ²

Test Photo:



TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 10 of 17

Test Item 8: Tensile Strength Perpendicular to Faces

Sample Description: See photo

Test Method: EN 1607:2013

Test Condition:

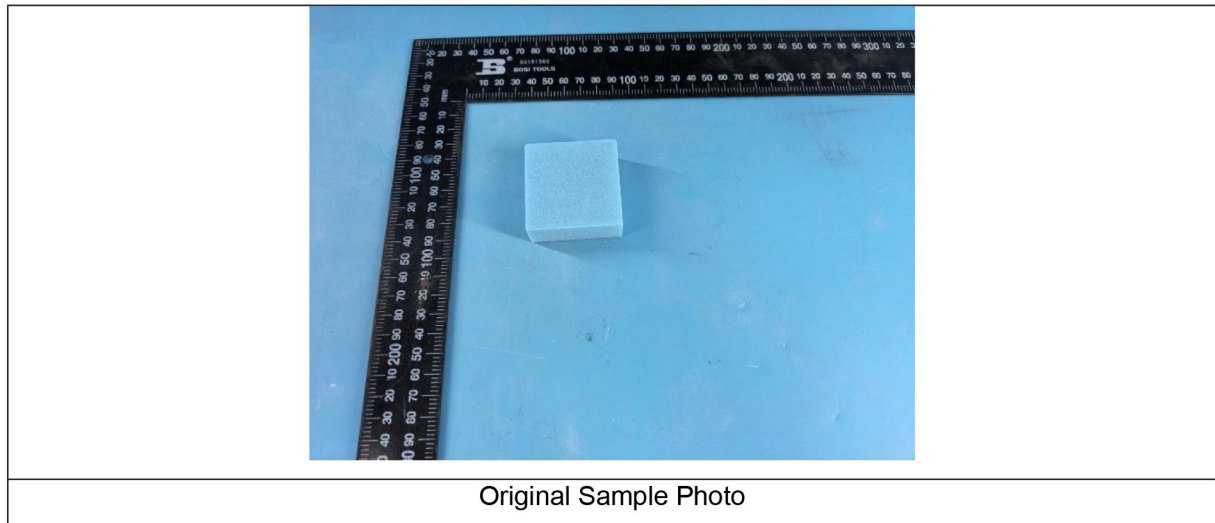
Specimen: 50mm×50mm×20mm

Testing Speed: 2 mm/min

Test Result:

Test Item	Test Result
Tensile Strength Perpendicular to Faces	800 kPa

Test Photo:



TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 11 of 17

Test Item 9: Water Vapor Transmission Rate

Sample Description: A-Foam

Test Method: EN 12086:2013

Test Condition:

Specimen thickness: 20.3mm

Transmission area: 0.005024 m²

Condition: (23±0.5)°C, (50±3)%RH

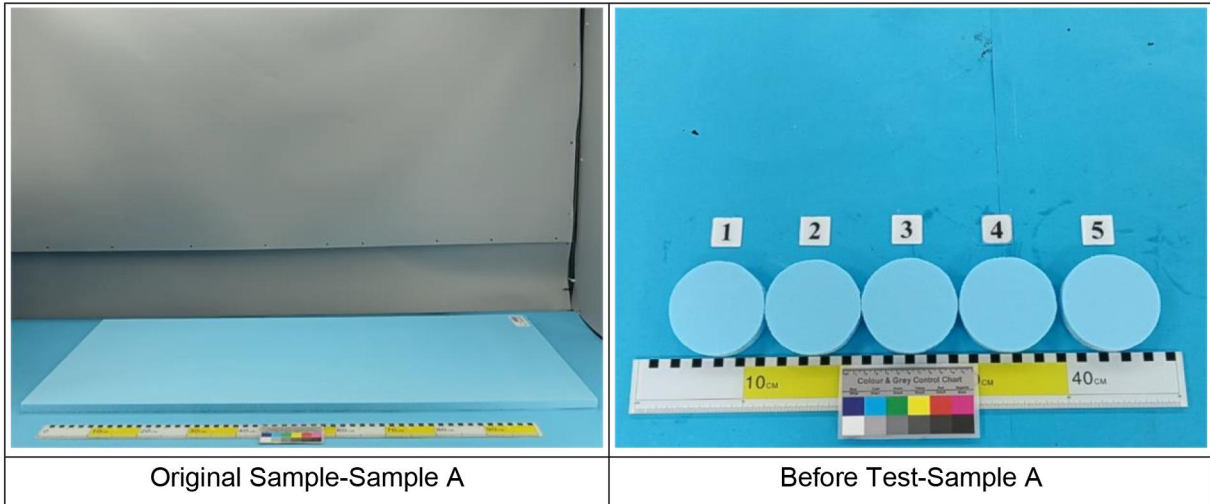
Test Result:

Sample A

Test Item	Test Result
Water Vapour Permeance	0.355 mg/(m ² ·h·Pa)
Water vapour diffusion resistance factor	98.75

Note: Test specimens were cut from the sample.

Test Photo:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-Standard Technical Services Co., Ltd.
Guangzhou Branch Materials Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

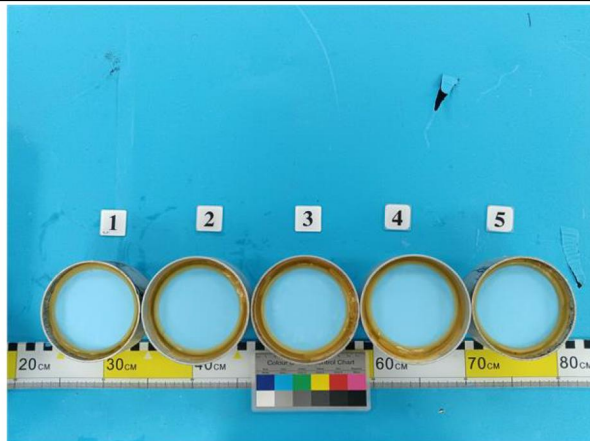
t (86-20) 82155661 www.sgsgroup.com.cn
t (86-20) 82155661 sgs.china@sgs.com

TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 12 of 17



After Test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Electron balance	XPE204	GZMR-PL-E004-06	2025-03-19	2026-03-18

TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 13 of 17

Test Item 10: EN 13501-1:2018 Fire classification of construction products and building elements —

Part 1: Classification using data from reaction to fire tests.

I. Test conducted

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test method as following:

EN ISO 11925-2:2020 Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Details of classified product

Sample Description	Foam
Color	Blue
Thickness	20mm
Area density	576g/m ²

III. Test results

Test methods	Parameter	Number of tests	Results
EN ISO 11925-2 Exposure = 15 s	Fs≤150mm within 20 s (Yes/No)	12	Yes
	Ignition of the filter paper (Yes/No)		No

IV. Classification and field of application

a) Reference of classification

This classification has been carried out in accordance with **EN 13501-1:2018**.

b) Classification

The product, XPS INSULATION BOARD (as described by the sponsor), in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: E

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

TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 14 of 17

c) Field of application

This classification is valid for the following product parameters:

--- Characteristics as described in section II of this test reports.

Limitations

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

Warning:

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

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.

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 $t_f = 0\text{s}$ (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	-



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC (Guangzhou Branch) Inspection & Testing Services
Guangzhou Branch Testing Materials Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155661 www.sgs.com.cn
t (86-20) 82155661 sgs.china@sgs.com



TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 15 of 17

Class	Test method(s)		Classification criteria	Additional classification
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		$PCS \leq 3.0\text{MJ/kg}$ ^a and $PCS \leq 4.0\text{MJ/m}^2$ ^b and $PCS \leq 4.0\text{MJ/m}^2$ ^d and $PCS \leq 3.0\text{MJ/kg}$ ^e	-
	EN 13823		$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823	and	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure =30s		$F_s \leq 150\text{mm}$ within 60s	
C	EN 13823	and	$FIGRA_{0.4\text{MJ}} \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 15\text{MJ}$	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	$FIGRA_{0.4\text{MJ}} \leq 750\text{W/s}$	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
F	EN ISO 11925-2 ⁱ Exposure = 15 s		$F_s > 150\text{mm}$ within 20 s	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663
t (86-20) 82155661 www.sgs.com.cn
t (86-20) 82155661 sgs.china@sgs.com

TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 16 of 17

- ^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 $PCS \leq 2,0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: $FIGRA \leq 20 \text{ W/s}$, and $LFS < \text{edge of specimen}$, and $THR_{600s} \leq 4,0 \text{ MJ}$, and $s1$, and $d0$.
- ^d For any internal non-substantial component of non-homogeneous products.
- ^e For the product as a whole.
- ^f $s1 = SMOGRA \leq 30 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 50 \text{ m}^2$; $s2 = SMOGRA \leq 180 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 200 \text{ m}^2$; $s3 = \text{not } s1 \text{ or } s2$
- ^g $d0 = \text{No flaming droplets/ particles in EN 13823 within 600 s}$;
 $d1 = \text{no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s}$;
 $d2 = \text{not } d0 \text{ or } d1$.
 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.

*Test project/method was carried out by Other laboratory in SGS group.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
 中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155661 www.sgsgroup.com.cn
 t (86-20) 82155661 sgs.china@sgs.com

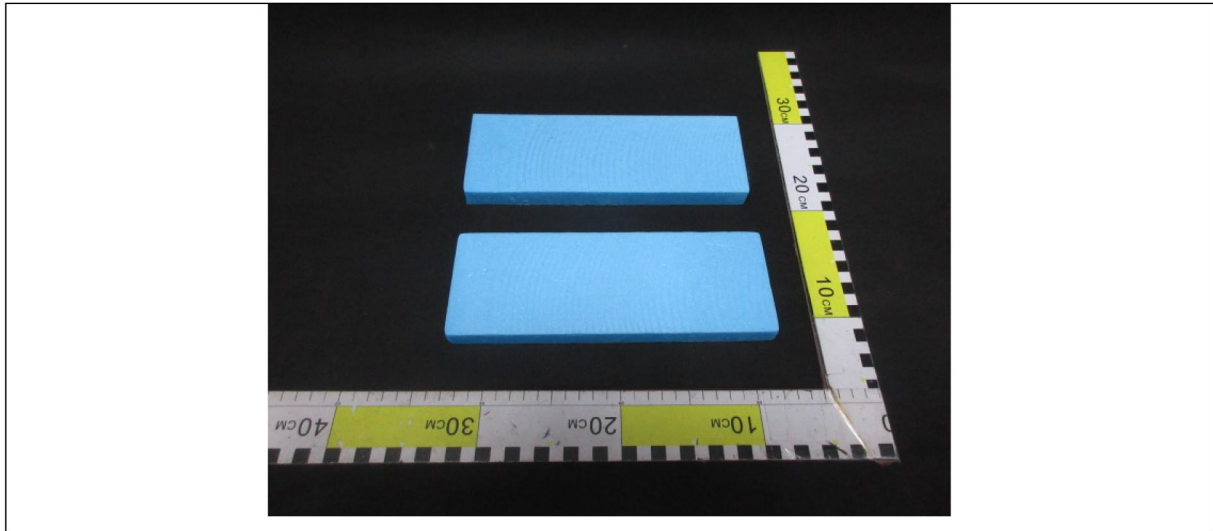
TEST REPORT

No. : GZIN2506002360PL01_EN

Date : 2025-08-27

Page: 17 of 17

Photo Appendix:



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

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CTC (China) Technical Services Co., Ltd.
Guangzhou Branch Materials Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155661 www.sgsgroup.com.cn
t (86-20) 82155661 sgs.china@sgs.com