

## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 1 of 14



CUSTOMER NAME: SHANDONG HONGLIDA ANTICORROSION MATERIAL CO.,LTD  
ADDRESS: NO. 110 WEST ROAD OF STATION, JINING, SHANDONG, CHINA

Sample Name : HLD T600 CORROSION PROTECTION TAPE  
Product Specification : 1.0mm  
Material : PE

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 : 2025-04-02  
Testing Period : 2025-04-02 ~ 2025-04-16  
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..

*Duke Gai*

Duke Gai  
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](mailto:CN.Doccheck@sgs.com)

Building C-11, No.80, Haiyun Avenue, TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

t (86-022) 5999 5324 www.sgsgroup.com.cn  
t (86-022) 5999 5324 sgs.china@sgs.com

## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 2 of 14

### Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Dielectric Breakdown Voltage	ASTM D1000-17 Section 83-90 & ASTM D149-20	42.8 kV/mm	N/A
2	180° Peel Strength	ASTM D1000-24 Section 46-53 and client's requirement	See result	N/A
3	Total Thickness	ASTM D1000-24 Section 21-27	1.085 mm	N/A
4	Breaking Strength and Elongation	ASTM D1000-24 Section 37-45 and client's requirement	See result	N/A
5	Water Absorption	ASTM D570-22	0.12%	N/A
6	Water Vapor Transmission Rate	ASTM E96/E96M-24a Procedure B	0.1013g/(m <sup>2</sup> ·24h)	N/A

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



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](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Inspection & Testing Services (Tianjin) Co., Ltd.  
Commercial Construction Material Laboratory

Building C-11, No.80, Haiyuan Avenue, TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

t (86-022) 5999 5324 www.sgsgroup.com.cn  
t (86-022) 5999 5324 sgs.china@sgs.com

## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 3 of 14

### 1. Test Item: Dielectric Breakdown Voltage

Sample Description: A-sheet

Test Method: ASTM D1000-17 Section 83-90 & ASTM D149-20

Test Condition:

Precondition: (23±2) °C, (50±5) %RH, 24 h

Surround medium: Air at (23±2) °C

Test electrode: Equal electrodes (upper and lower electrodes φ6.4 mm)

Voltage type: AC 50 Hz

Mode of increase of voltage: Rapid-rise, 500 V/s

Test Result:

Sample A

Specimen No.	Thickness, mm	Breakdown Voltage, kV	Dielectric Strength, kV/mm
1	0.57	23.2	41.0
2	0.60	25.2	41.9
3	0.59	25.6	43.6
4	0.62	25.9	41.9
5	0.61	27.7	45.7
Average	/	25.5	42.8

Note:

Test specimens were cut from the sample.



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](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Inspection & Testing Services (Tianjin) Co., Ltd.  
Commercial Construction Materials Laboratory

Building C-11, No.80, Haiyun Avenue, TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

t (86-022) 5999 5324 www.sgsgroup.com.cn  
t (86-022) 5999 5324 sgs.china@sgs.com

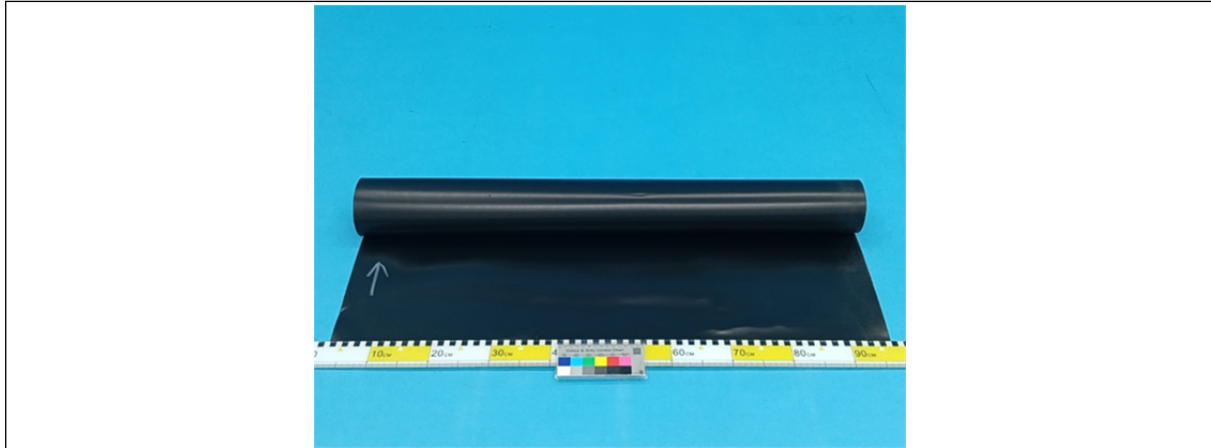
## TEST REPORT

No. : TJIN2504000196CM01\_EN

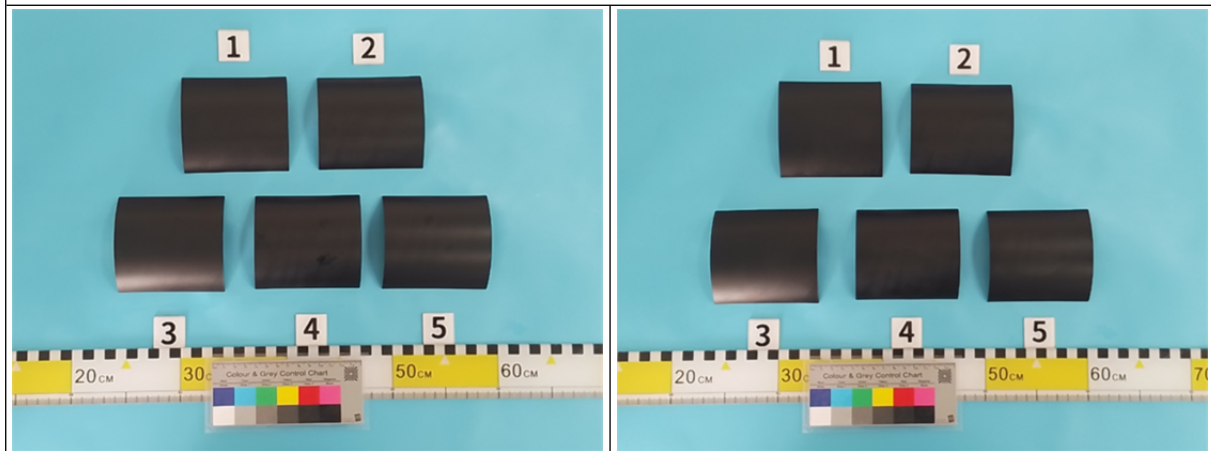
Date : 2025-04-16

Page: 4 of 14

Test Photo:



Original Sample-Sample A



Before Test-Sample A

After Test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Microcomputer Controlled Voltage Breakdo	DJC-50KV	POL-292	2024-08-20	2025-08-19
Digital Thickness Gauge	TG-3130-A3	POL-437	2025-03-24	2026-03-23



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](mailto:CN.Doccheck@sgs.com)

SGS-CSTC 检测技术有限公司  
Commercial Construction Material Laboratory

Building C-11, No.80, Haiyun Avenue, TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

t (86-022) 5999 5324 www.sgs.com.cn  
t (86-022) 5999 5324 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 5 of 14

### 2. Test Item: 180° Peel Strength

Sample Description: A-sheet

Test Method: ASTM D1000-24 Section 46-53 and client's requirement

Test Condition:

Specimen Width: 50 mm

Testing Speed: 300 mm/min

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

Test Result:

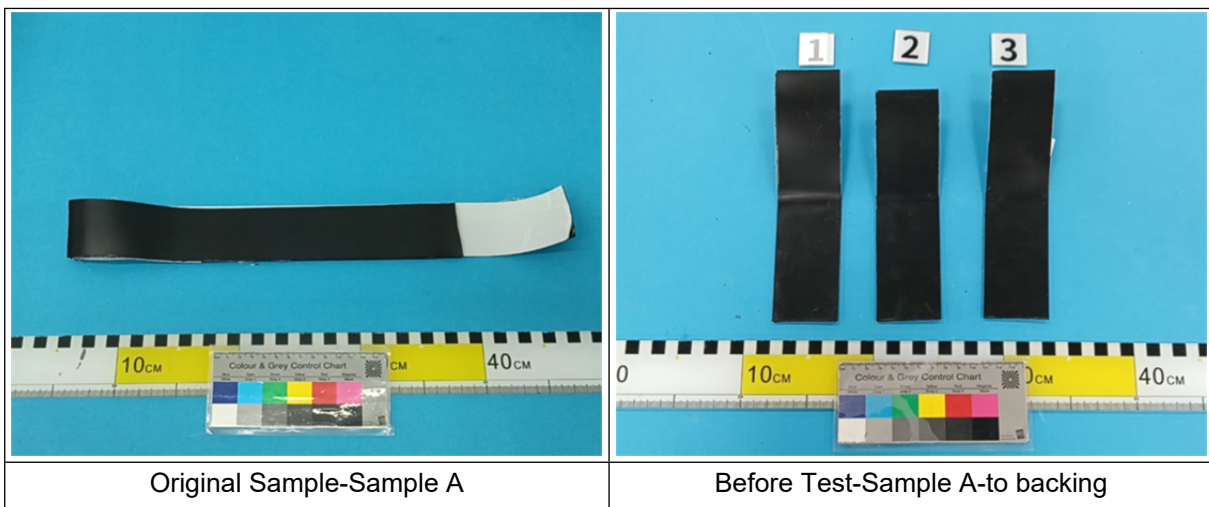
Sample A

Test Item	Test Result	
180° Peel Strength	To backing	22.2 N/cm
	To steel panel	38.8 N/cm

Note:

1. Test specimens were cut from the sample.
2. The result was for reference only as the specimen did not meet the requirements specified in the standard.

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](mailto:CN.Doccheck@sgs.com)

Building C-11, No.80, Haiyun Avenue, TEDA, Tianjin, China 300457  
 中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

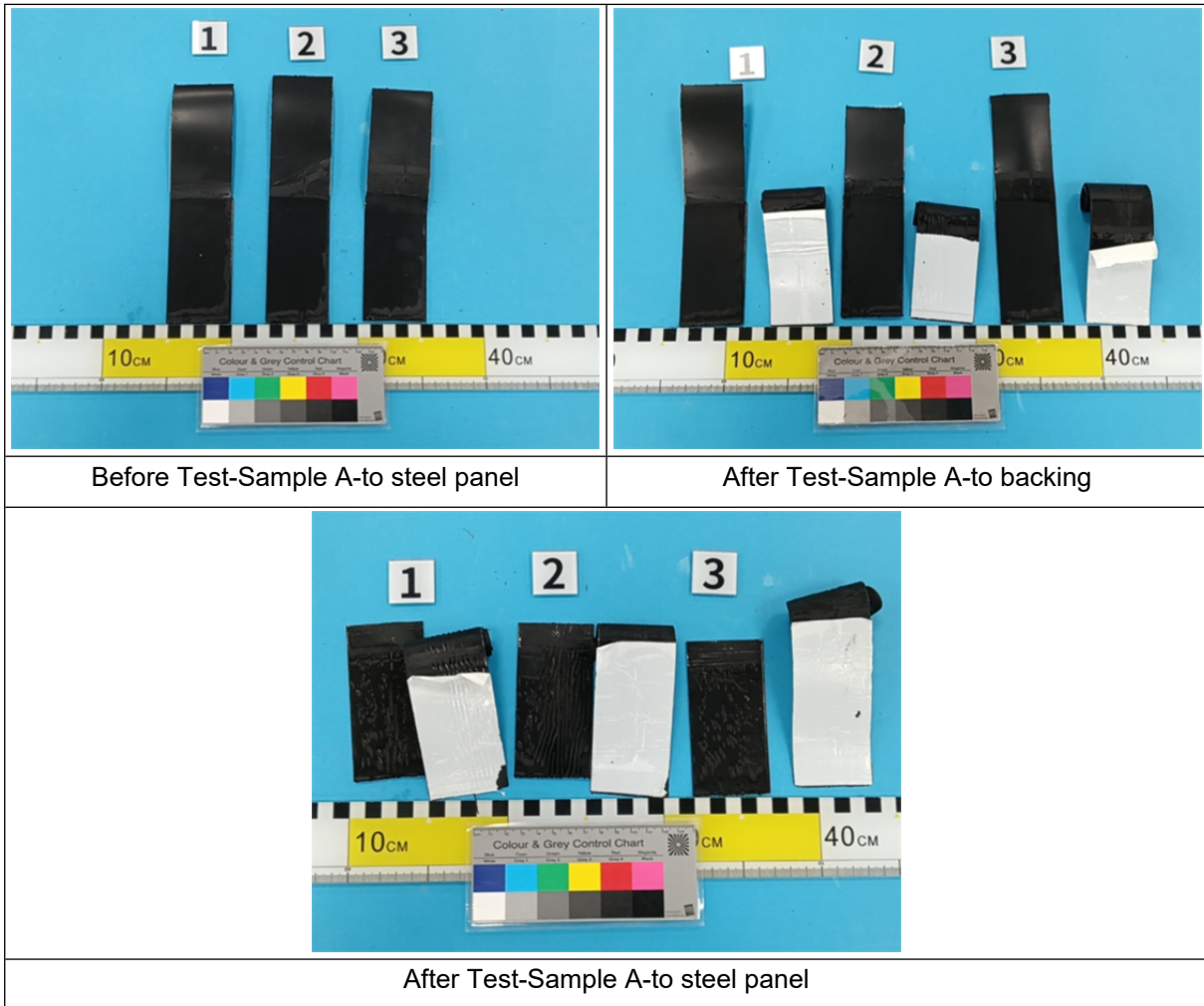
t (86-022) 5999 5324 www.sgs.com.cn  
 t (86-022) 5999 5324 sgs.china@sgs.com

## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 6 of 14



### Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Zwick Z010	POL-022	2024-08-21	2025-08-20



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](mailto:CN.Doccheck@sgs.com)

Building C-11, No.80, Haiyun Avenue, TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

t (86-022) 5999 5324 www.sgs.com.cn  
t (86-022) 5999 5324 sgs.china@sgs.com

## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 7 of 14

### 3. Test Item: Total Thickness

Sample Description: A-sheet

Test Method: ASTM D1000-24 Section 21-27

Test Condition:

Pressure: 50 kPa

Pressure foot diameter: 6 mm

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

Test Result:

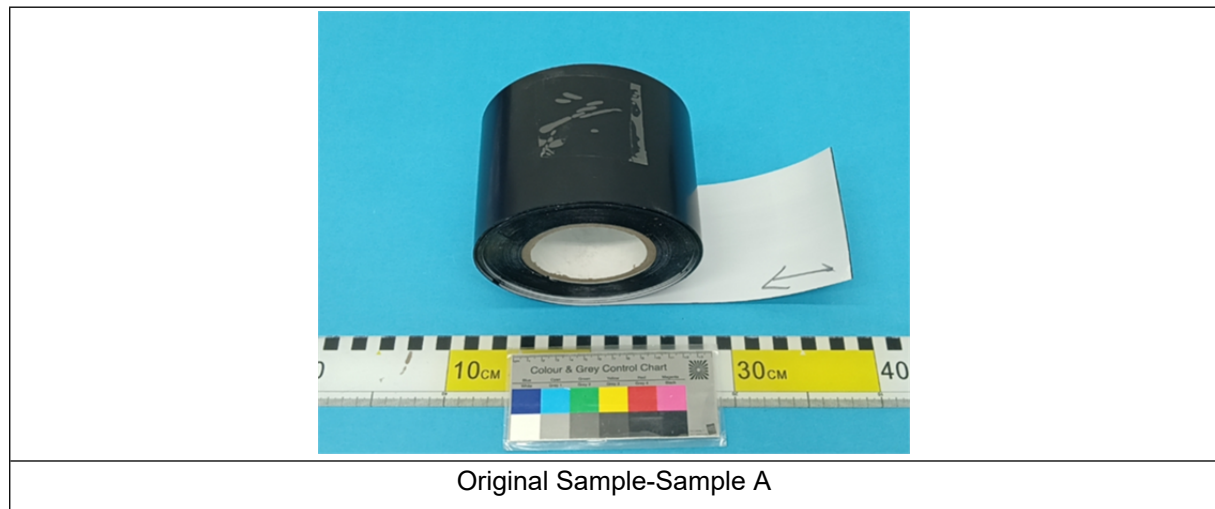
Sample A

Test Item	Test Result
Total Thickness	1.085 mm

Note:

Test specimens were cut from the sample.

Test Photo:



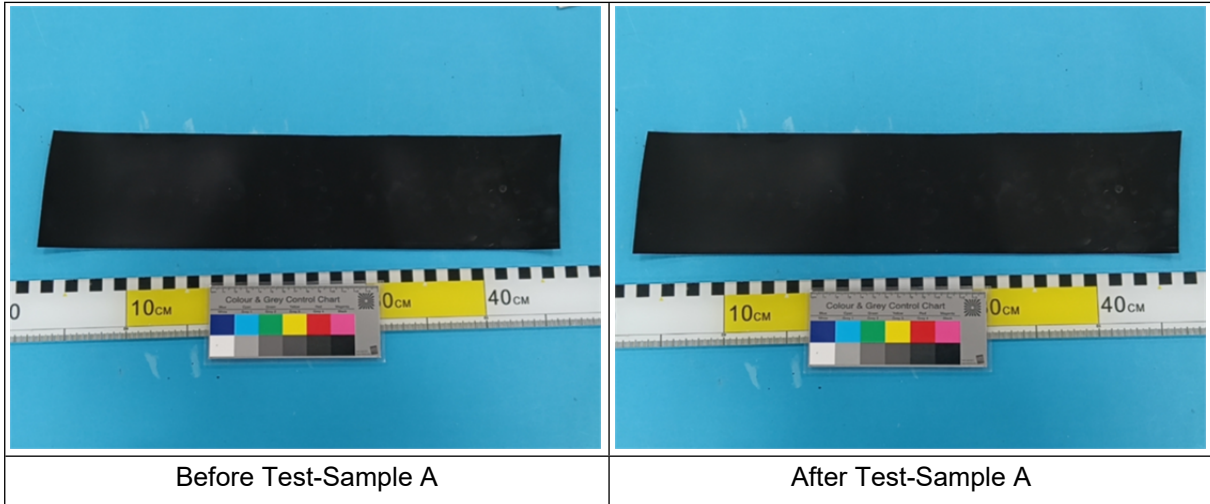


## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 8 of 14



Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Digital Thickness Gauge	MY-3130-A3	POL-061	2024-11-19	2025-11-18



SGS-CSTC (Shanghai Commercial Testing & Certification Co., Ltd.)  
Commercial Construction Materials Laboratory

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](mailto:CN.Doccheck@sgs.com)

Building C-11, No.80, Haiyun Avenue, TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

t (86-022) 5999 5324 www.sgs.com.cn  
t (86-022) 5999 5324 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 9 of 14

## 4. Test Item: Breaking Strength and Elongation

Sample Description: A-sheet

Test Method: ASTM D1000-24 Section 37-45 and client's requirement

Test Condition:

Specimen Thickness: 0.60 mm

Specimen Width: 50 mm

Testing Speed: 300 mm/min

Grip Separation: 100 mm

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

Test Result:

Sample A

Test Item	Test Result
Breaking Strength	144N/10mm
Elongation	340%

Note:

1. Test specimens were cut from the sample.
2. The result was for reference only as the specimen did not meet the requirements specified in the standard.

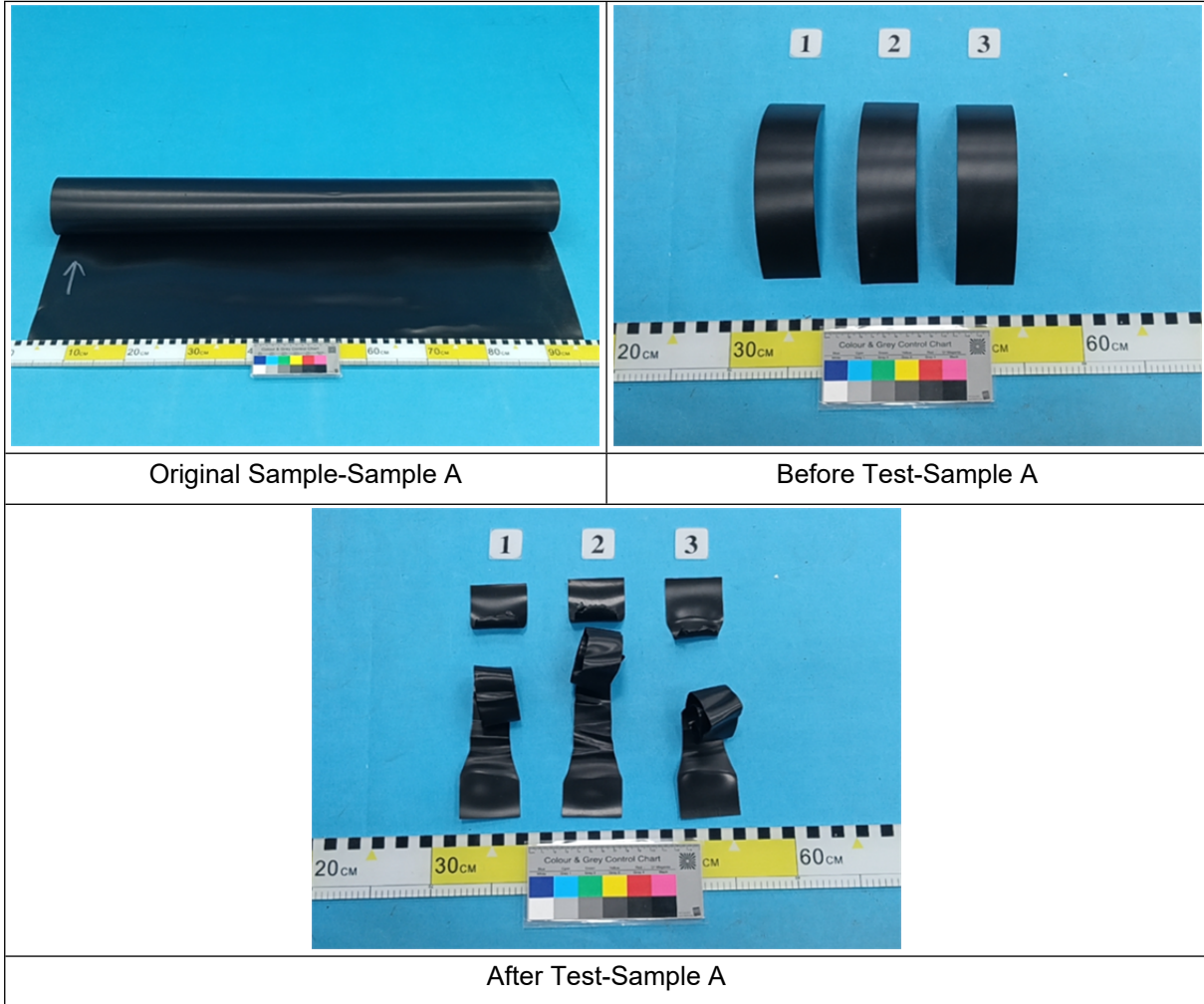
## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 10 of 14

Test Photo:



Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	CMT4304	POL-116	2024-08-21	2025-08-20



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](mailto:CN.Doccheck@sgs.com)

Building C-11, No.80, Haiyun Avenue, TEDA, Tianjin, China 300457  
 中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

t (86-022) 5999 5324 www.sgs.com.cn  
 t (86-022) 5999 5324 sgs.china@sgs.com

## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 11 of 14

### 5. Test Item: Water Absorption

Sample Description: A-sheet

Test Method: ASTM D570-22

Test Condition:

Specimen: 76 mm x 26 mm x 0.58 mm

Dry Condition: (50±2) °C, (24±1) h

Immerse Condition: (23±1) °C, 24 h

Test Result:

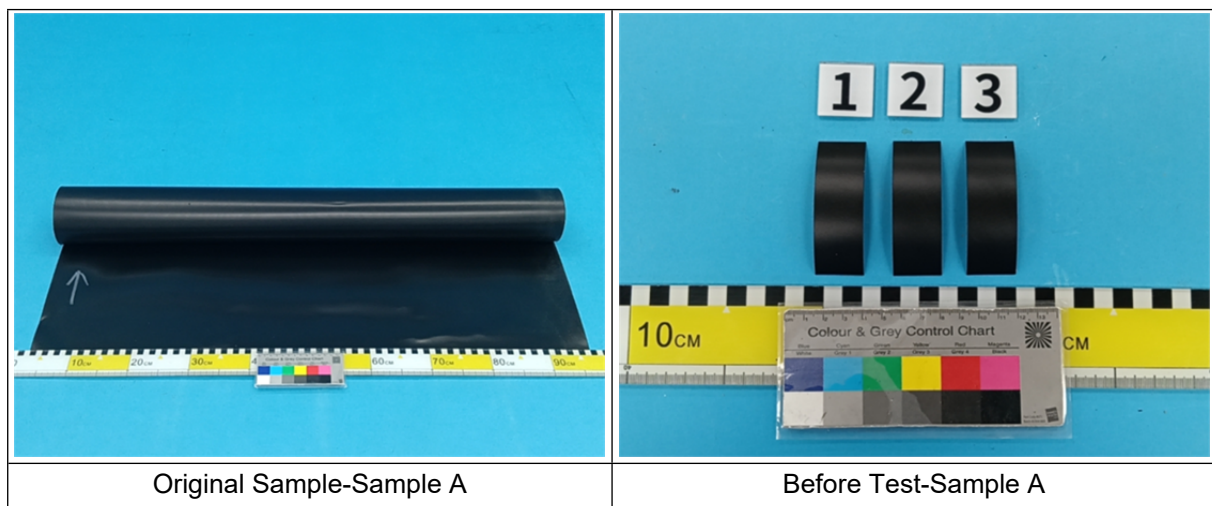
Sample A

Test Item	Test Result
Water Absorption	0.12%

Note:

1. Water absorption, %=(Mass after immersion-Mass after drying and before immersion)/Mass after drying and before immersion×100
2. Test specimens were cut from the sample.

Test Photo:



Original Sample-Sample A

Before Test-Sample A



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](mailto:CN.Doccheck@sgs.com)

SGS-CSTC (Tianjin) Co., Ltd.  
Building C-11, No.80, Haiyuan Avenue, TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

t (86-022) 5999 5324 www.sgs.com.cn  
t (86-022) 5999 5324 sgs.china@sgs.com

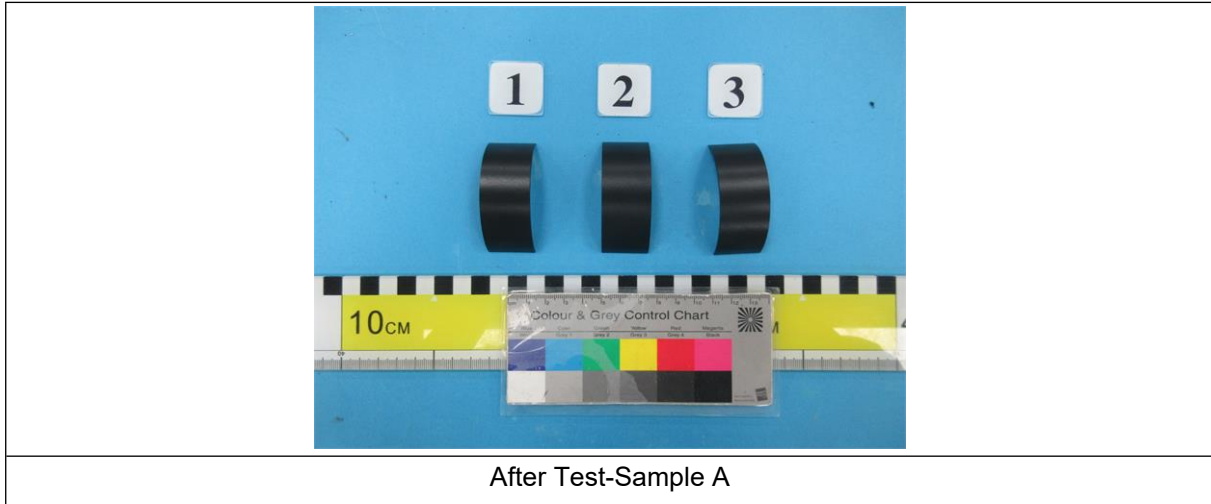
Member of the SGS Group (SGS SA)

## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 12 of 14



### Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Electron balance	MS204TS/02	POL-193	2025-03-10	2026-03-09
Oven	UN75	POL-128	2025-03-10	2026-03-09



SGS-CSTC (Tianjin) Co., Ltd.  
Commercial Construction Material Laboratory

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](mailto:CN.Doccheck@sgs.com)

Building C-11, No.80, Haiyun Avenue, TEDA, Tianjin, China 300457  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457

t (86-022) 5999 5324 www.sgs.com.cn  
t (86-022) 5999 5324 sgs.china@sgs.com



## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 13 of 14

6. Test Item: Water Vapor Transmission Rate

Sample Description: See photo

Test Method: ASTM E96/E96M-24a Procedure B

Test Condition:

Specimen thickness: 0.612mm

Condition: 23°C, 50%RH

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

Test Result:

Test Item	Test Result
Water Vapor Transmission Rate	0.1013g/(m <sup>2</sup> ·24h)

Note:

1. Test surface was the smooth surface.
2. Test specimens were cut from the sample.
3. Test result was close to the lower limit of the tester(0.1 g/(m<sup>2</sup>·24h)). The test result was for reference only.

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Water vapor transmission rate meter	w3-060	POL-AG-E032	2025-03-21	2026-03-20

## TEST REPORT

No. : TJIN2504000196CM01\_EN

Date : 2025-04-16

Page: 14 of 14

Original Sample Photo:



Test project 6 was carried out by other laboratory in SGS group.

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\*\*\*\*\*