TEST REPORT

No. : SHMR260802229401
Date : Sep 09, 2026
Page: 1 of 9

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CUSTOMER NAME: The lonly brave(Changzhou) New Materials Technology Co., Ltd.
ADDRESS: A201-204, No. 26 North Yangtze River Road, Xinbei District, Changzhou City, Jiangsu Province

Sample Name : Glass insulation coating/liquid thermal film
Others : Liquid glass insulation

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. : SHIN2608002834CM02,CZIN2608000760CM01,CZIN2608000760CM02
Date of Receipt : Aug 20, 2026
Testing Start Date : Aug 20, 2026
Testing End Date : Sep 09, 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 (Shanghai) Co., Ltd.

苏献兰
Authorized signatory

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
检验检测专用章
Inspection & Testing Services
Central Material & Reliability Laboratory

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TEST REPORT

No. : SHMR260802229401
Date : Sep 09, 2026

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Pencil Hardness	ISO 15184:2020	See result	Pass
2	Cross-cut Test	ISO 2409:2020	See result	Pass
3	Coating Thickness	ISO 2808:2019	See result	N/A

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

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TEST REPORT

1. Test Item: Pencil Hardness

Sample Description: A-Coated glass panels

Test Method: ISO 15184:2020

Pretreatment Condition: (23 ± 2) °C, (50 ± 5) %RH, 16 h

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

Test Condition:

Load: (7.35±0.15) N

Test Result:

Sample A

Type Of Defect:Cohesive fracture

Test Pencil:Mitsubishi® Uni

Specimen	1	2	Client's requirement	Conclusion
Pencil Hardness	3H	3H	⩾3H	Pass

Notes:

In Mitsubishi® Uni test pencil, 9H is the hardest and 6B is the softest.

6B-5B-4B-3B-2B-B-HB-F-H-2H-3H-4H-5H-6H-7H-8H-9H

softer←----------→harder

Sample A

Type Of Defect:Plastic deformation

Test Pencil:Mitsubishi® Uni

Specimen	1	2	Client's requirement	Conclusion
Pencil Hardness	3H	3H	⩾3H	Pass

Notes:

In Mitsubishi® Uni test pencil, 9H is the hardest and 6B is the softest.

6B-5B-4B-3B-2B-B-HB-F-H-2H-3H-4H-5H-6H-7H-8H-9H

softer←----------→harder

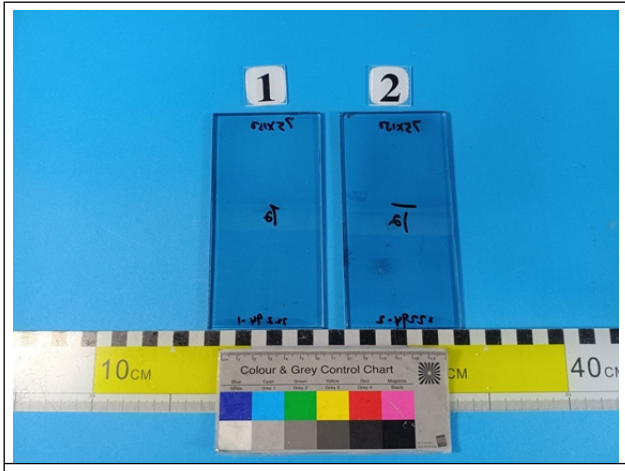
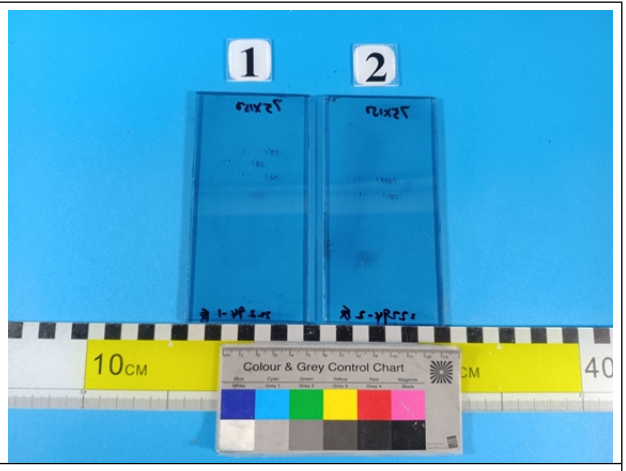
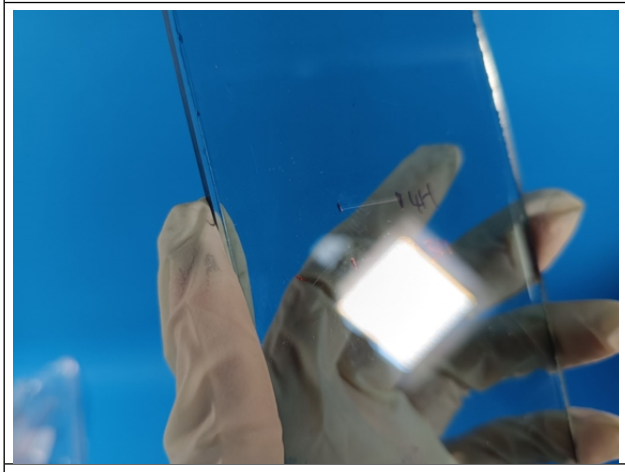
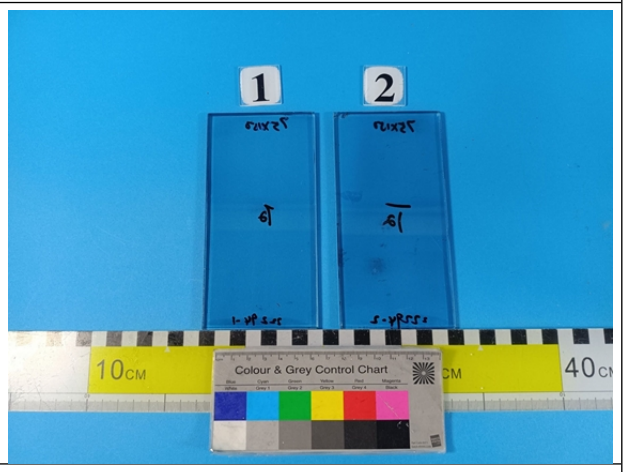
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TEST REPORT

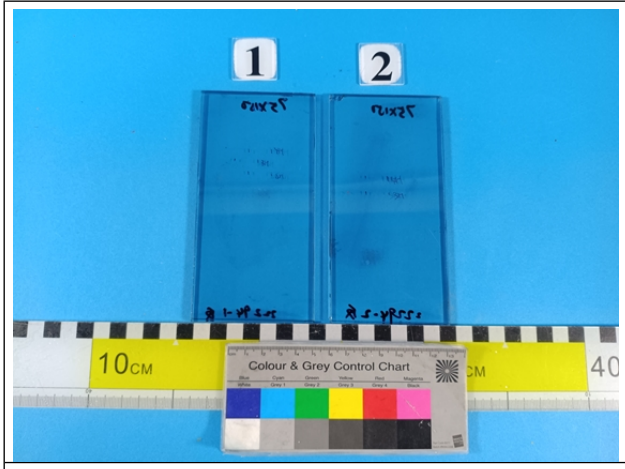
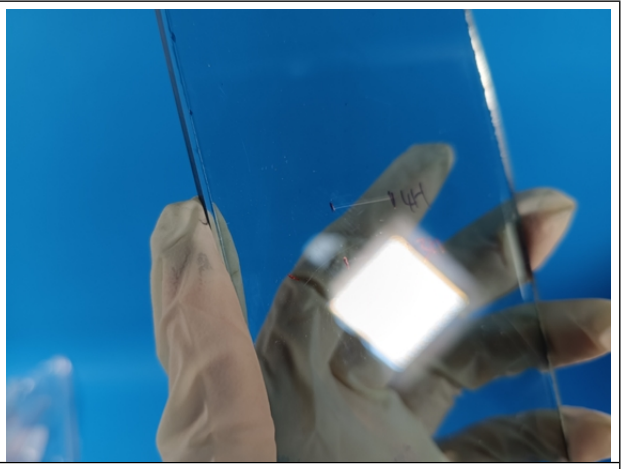
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Date : Sep 09, 2026

Test Photo:

	
Before Test-Sample A	After Test-Sample A
	
After Test-Sample A	Before Test-Sample A

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TEST REPORT

	
After Test-Sample A	After Test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Adjustable Pencil Hardness Test	BEVSC1309	P-976	2026-08-10	2027-08-09

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TEST REPORT

2. Test Item: Cross-cut Test

Sample Description: A-Coated glass panels

Test Method: ISO 2409:2020

Pretreatment Condition: (23 ± 2) °C, (50 ± 5) %RH, 16 h

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

Test Condition:

Cutting tool: Type 1c (rigid blade with V-shaped cutting edge)

Operation method: Manual

Test Result:

Sample A

Tape:3M 681(Scotch®)

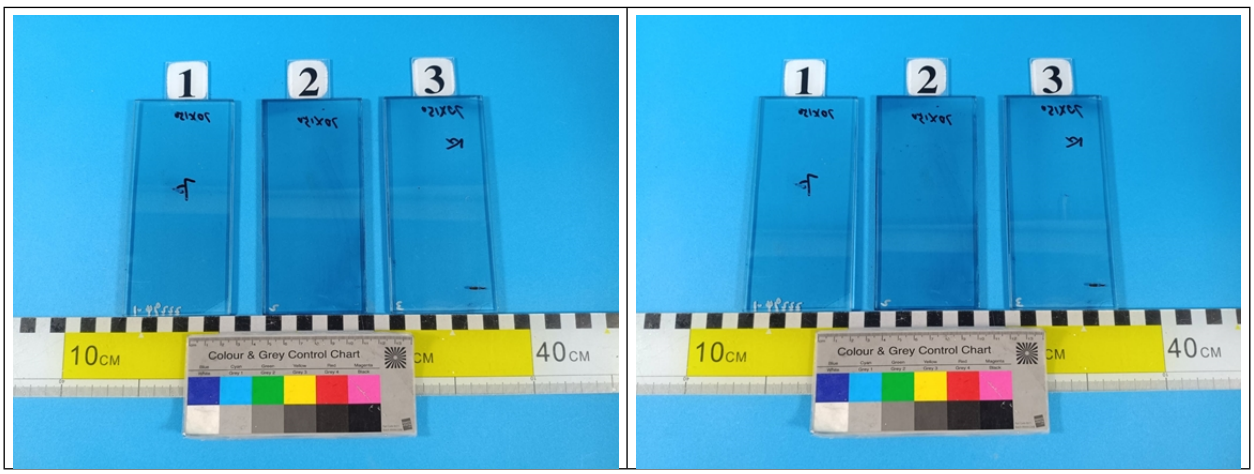
Scribe space:1 mm

Specimen	1	2	3	Client's requirement	Conclusion
Adhesion Classification	0	0	0	0	Pass

Notes:

According to ISO 2409:2020, 0 is the best and 5 is the worst.

Test Photo:



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TEST REPORT

Before Test-Sample A	After Test-Sample A
	/
After Test-Sample A-Local part	/

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Adhesion Scribing Plates	-	P-875-2	2026-03-24	2026-09-23

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TEST REPORT

3. Test Item: Coating Thickness

Sample Description: A-Coated glass panels

Test Method: ISO 2808:2019

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

Test Condition:

Eddy Current Method

Test Result:

Sample A

Specimen	1	2	3
Test point 1, μm	17.2	16.4	18.5
Test point 2, μm	16.4	16.3	18.6
Test point 3, μm	17.2	16.3	19.2
Test point 4, μm	16.4	16.3	18.7
Test point 5, μm	16.5	16.5	18.7
Average, μm	16.7	16.4	18.8
Standard Deviation, μm	0.409	0.007	0.270

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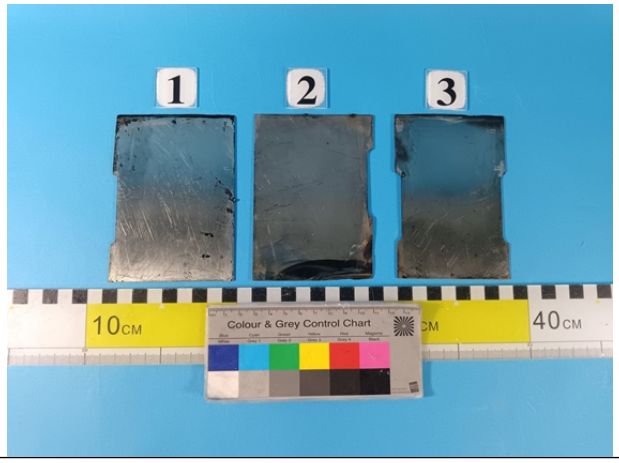
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Test Photo:



Before Test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
FISCHER thickness gauge of coating and plating	FISCHERSCOPE MMS PC2 BU	P-481	2025-10-14	2026-10-13

Appendix information:

*This test report is an English version of the Chinese report, No.: SHMR260802229401_CN, and the Chinese report shall prevail.

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

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