

TEST REPORT

No. : SHIN1907046953MR

Date : Jul 12, 2019

Page: 1 of 6

CUSTOMER NAME: SUNLIGHTSEAL B.V
ADDRESS: CHRIS BROERSESTRAAT 92742 MW WADDINXVEEN

Sample Name : HIGH PERFORMANCE TRANSPARENT HEAT INSULATION GLASS
COATING

Manufacturer : SUNLIGHTSEAL B.V

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. : SHIN190701980CCM
Date of Receipt : Jul 08, 2019
Testing Start Date : Jul 08, 2019
Testing End Date : Jul 12, 2019
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
Service (Shanghai)Co., Ltd.



Crystal Wan
Authorized signatory



*Sunlightseal, de energiebesparende
glascoating!*

TEST REPORT

No. : SHIN1907046953MR

Date : Jul 12, 2019

Page: 2 of 6

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	The Adhesion of a Coating	ISO 16276-2:2007 & ISO 2409:2013	See Result	/
2	Pencil Hardness	ISO 15184:2012	See Result	/

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



*Sunlightseal, de energiebesparende
 glascoating!*

TEST REPORT

No. : SHIN1907046953MR

Date : Jul 12, 2019

Page: 3 of 6

1. Test Item: The Adhesion of a Coating

Sample Description: Panel with Coating

Test Method: ISO 16276-2:2007 & ISO 2409:2013

Test Condition:

Space: 1mm

Tape: 3M®600#

Cross-cut Testing

Test Result:

Sample	Adhesion classification
1	0
2	0
3	0

Note: According to ISO 2409:2013, in the adhesion classification--classification 0 is the best and classification 5 is the worst. Coating thickness: about 6µm (Provided by client).



*Sunlightseal, de energiebesparende
glascoating!*

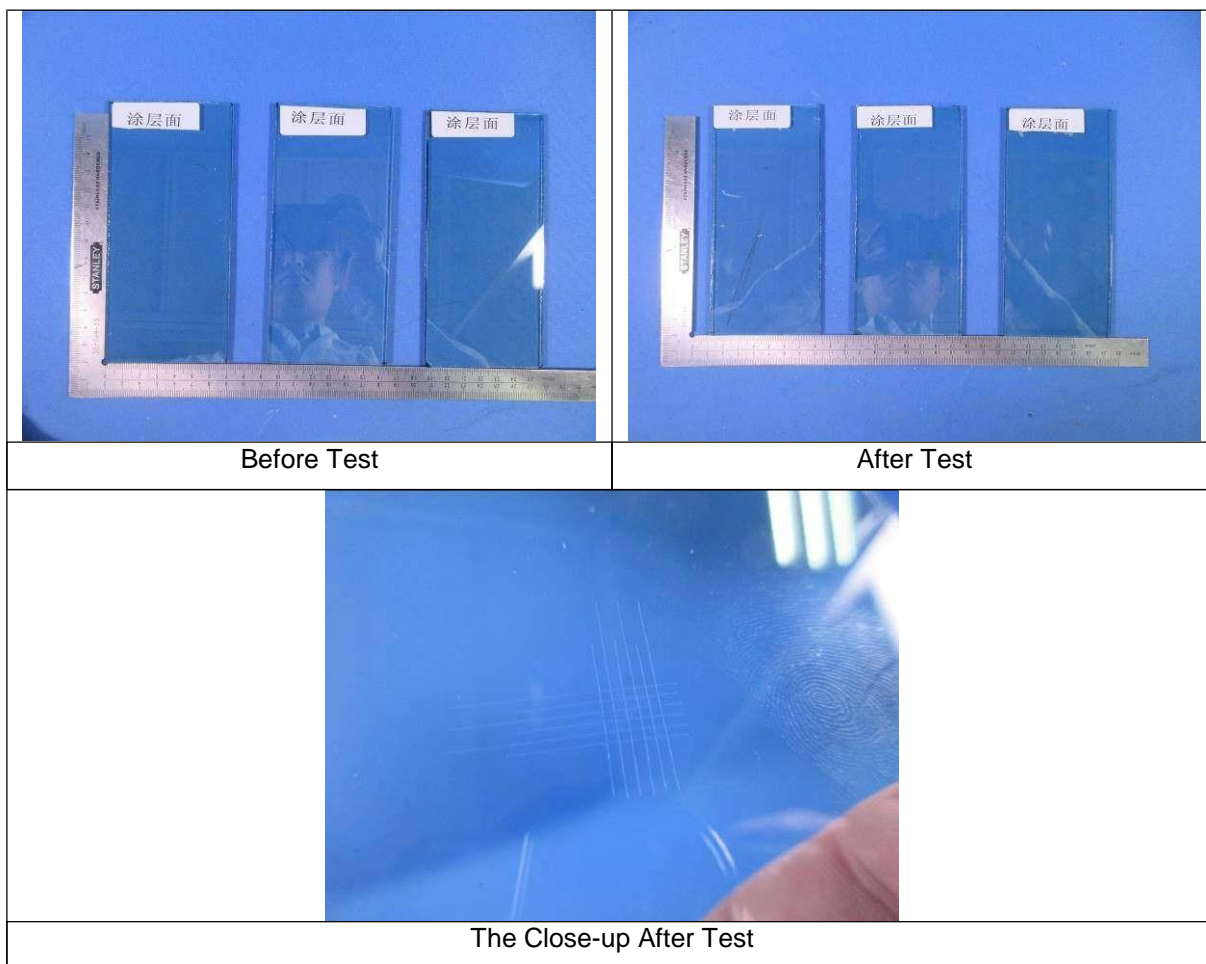
TEST REPORT

No. : SHIN1907046953MR

Date : Jul 12, 2019

Page: 4 of 6

Test Photo:



*Sunlightseal, de energiebesparende
glascoating!*

TEST REPORT

No. : SHIN1907046953MR

Date : Jul 12, 2019

Page: 5 of 6

2. Test Item: Pencil Hardness

Sample Description: Panel with coating

Test Method: ISO15184:2012

Test Condition:

Test Pencil: Mitsubishi® Uni

Load: (750±10)g

Test Result:

Sample	Pencil Hardness (See note 1,2)
1	4H
2	4H

Note:

1. 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

2. Type of defect: Cohesive fracture



*Sunlightseal, de energiebesparende
glascoating!*

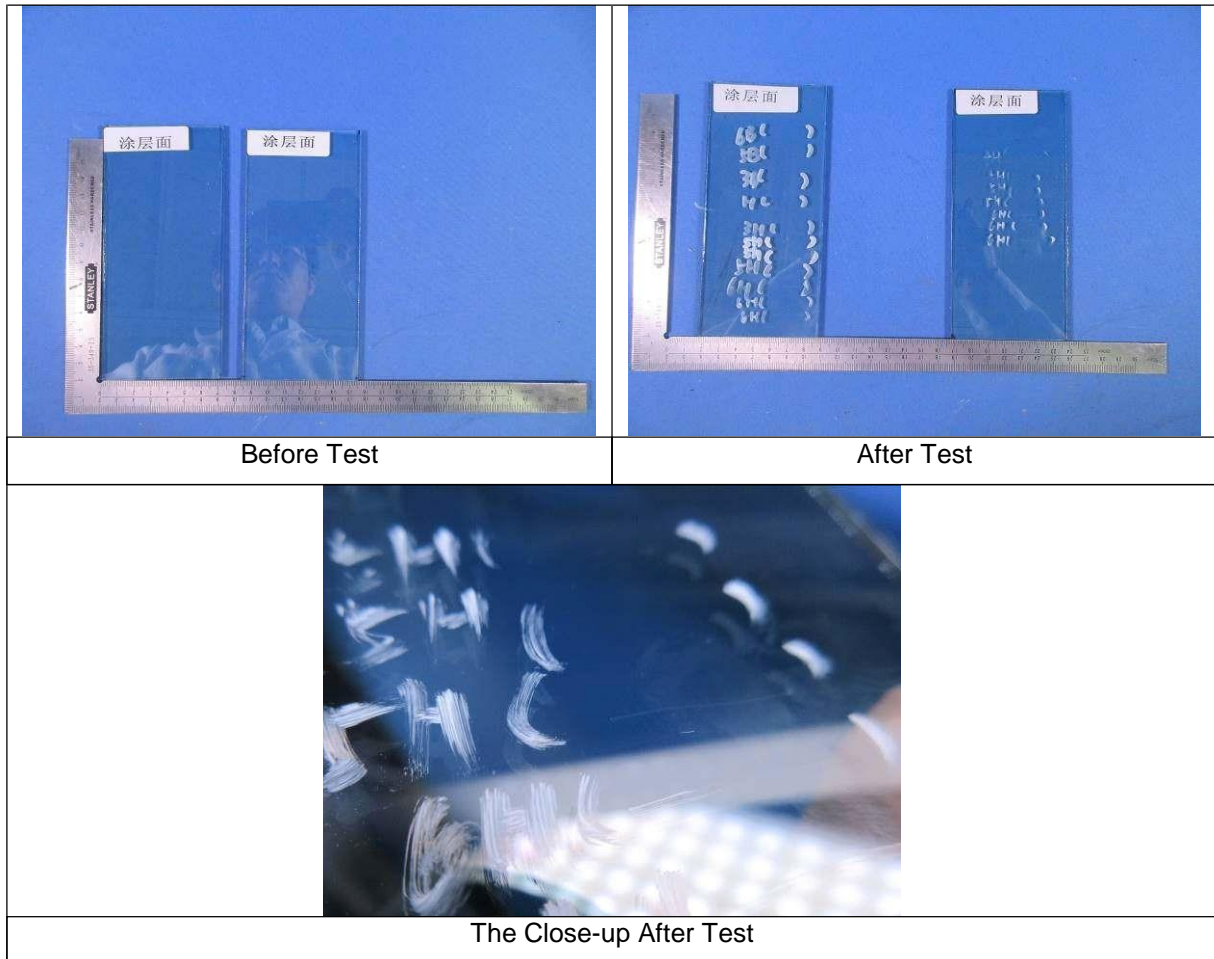
TEST REPORT

No. : SHIN1907046953MR

Date : Jul 12, 2019

Page: 6 of 6

Test Photo:



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

In the territory of The Netherlands, the test report without CMA logo expresses 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.