

TEST REPORT

No. : NJIN2308001172PL02_EN

Date : 2023-09-07

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CUSTOMER NAME: SEEHO FILM CO., LTD.
ADDRESS: BUILDING 5, NO. 1333, HAIGANG ROAD, DUSHANGANG TOWN,
PINGHU CITY, JIAXING CITY, ZHEJIANG

Sample Name : CLEARPRO PPF

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 : 2023-08-28
Testing Period : 2023-08-28 ~ 2023-09-07
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. Nanjing Branch.

Daisy Wu
吴 旻

Daisy Wu
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Nanjing Branch Material Laboratory

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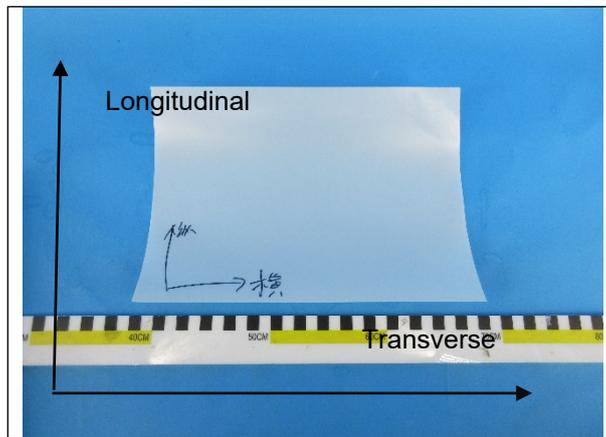
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Summary of Results:

| No. | Test Item | Test Method | Result | Con. |
|-----|--------------------------|---|------------|------|
| 1 | Resistance to Scratching | With Reference to GB/T 17657-2022 Section 4.42 and Client's Requirement | See Result | / |
| 2 | Puncture Resistance | ASTM D1000-17 Section 123-128 | 202 N | / |
| 3 | Appearance | HG/T 5070-2016 Section 6.2 | See Result | / |
| 4 | Tear Strength | GB/T 529-2008 Method B Procedure (b) | See Result | / |
| 5 | Tensile Test | GB/T 528-2009 | See Result | / |
| 6 | 180° Peel Strength | GB/T 2792-2014 Method 4 and client's requirement | 10.4 N/cm | / |

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

Original Sample Photo:



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1. Resistance to Scratching Test

Test Method: With Reference to GB/T 17657-2022 Section 4.42 and Client's Requirement

Test Condition:

Specimen: 150mm×50mm×2.0mm, 1pc

Rubbing stylus: Hemispherical diamond scratching point of radius (0.09±0.003)mm and an included angle of (90 ± 1) °

Rotational frequency: (5±1) r·min⁻¹

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

Test Result:

| Test Item | Test Result |
|--------------------------|-------------|
| Resistance to Scratching | Rating 1 |

According to GB/T 17657-2022 Table 5 rating scale as follow:

| Rating | Discontinuous scratches, or faint superficial marks, or no visible marks | ≥90% continuous double circle of scratch marks clearly visible |
|----------|--|--|
| Rating 5 | 6N | >6N |
| Rating 4 | 4N | 6N |
| Rating 3 | 2N | 4N |
| Rating 2 | 1N | 2N |
| Rating 1 | - | 1N |



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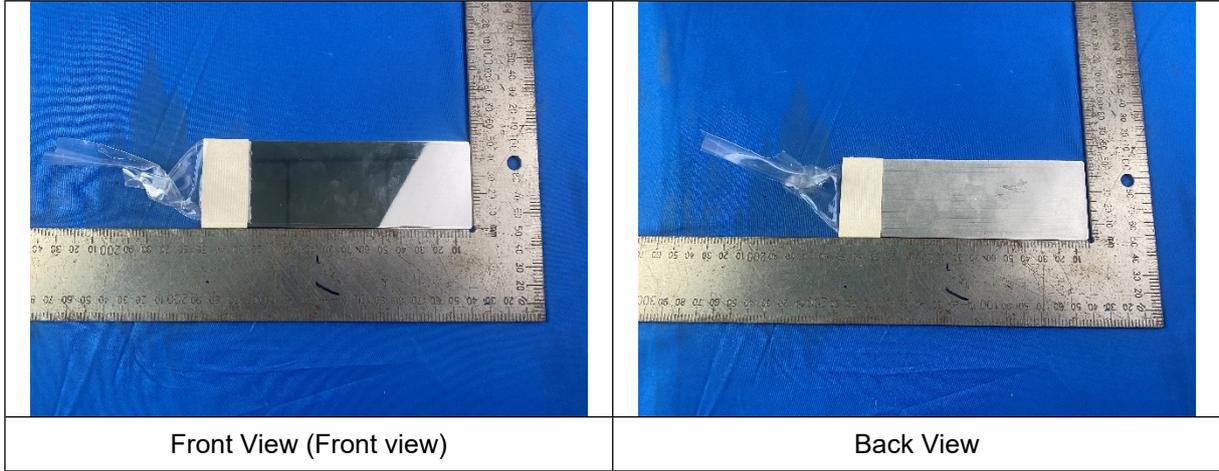
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Original Sample Photo(s):



2. Puncture Resistance Test

Sample Description: Tape

Test Method: ASTM D1000-17 Section 123-128

Test Condition:

Testing speed:50 mm/min

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

Test Result:

| Test Item | Test Result |
|---------------------|-------------|
| Puncture Resistance | 202 N |

Note:

1. Test specimens were cut from the sample.
2. Remove protective film and release film before testing.



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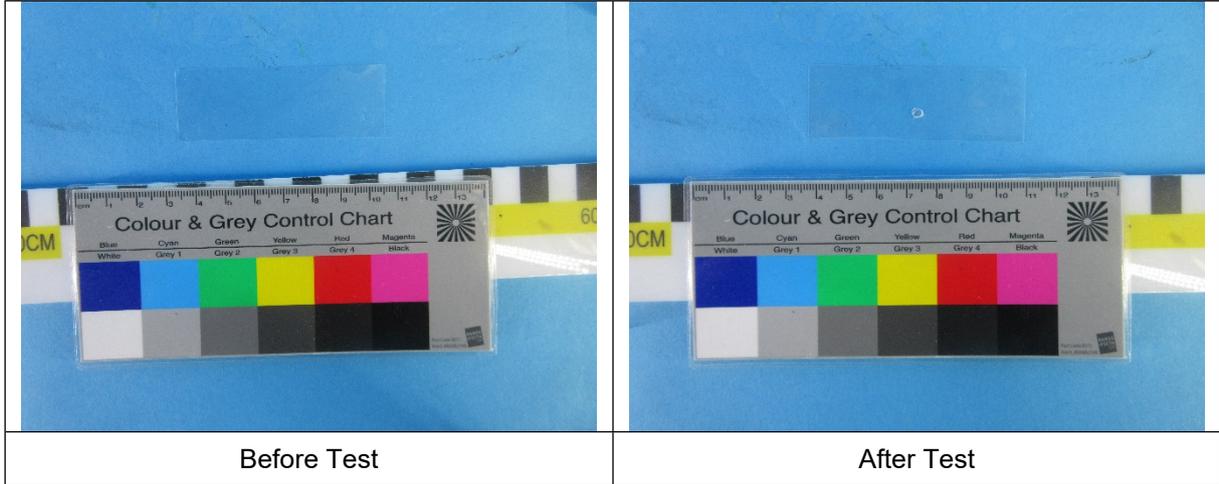
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Test Photo:



3. Appearance Test

Sample Description: Film

Test Method: HG/T 5070-2016 Section 6.2

Test Condition:

Fluorescent lamp, visual inspection of appearance.

Measure the unevenness of the end face with a steel ruler.

Test Result:

| Test Item | Result |
|---|-----------------------|
| End face irregularity | < 5 mm |
| End face scratches, oil stains, impurities | No |
| Bubble | No |
| Surface scratches, wrinkles, oil stains, impurities | No |
| Flatness | No obvious wavy edges |

Note: Remove protective film and release film before testing.



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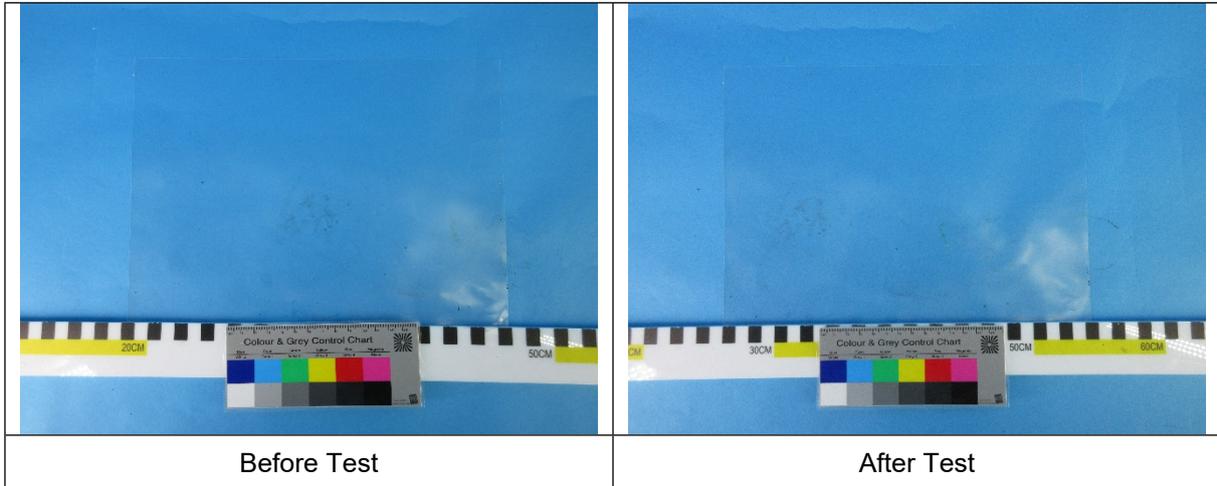
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Test Photo:



4. Tear Strength Test

Sample Description: Film

Test Method: GB/T 529-2008 Method B Procedure (b)

Test Condition:

Specimen thickness: Transverse: 0.187 mm; Longitudinal: 0.187 mm

Testing speed: 500 mm/min

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

Test Result:

| Test Item | Test Result | |
|---------------|--------------|---------|
| Tear Strength | Transverse | 44 kN/m |
| | Longitudinal | 42 kN/m |

Note:

1. Test specimens were cut from the sample.
2. Remove protective film and release film before testing.



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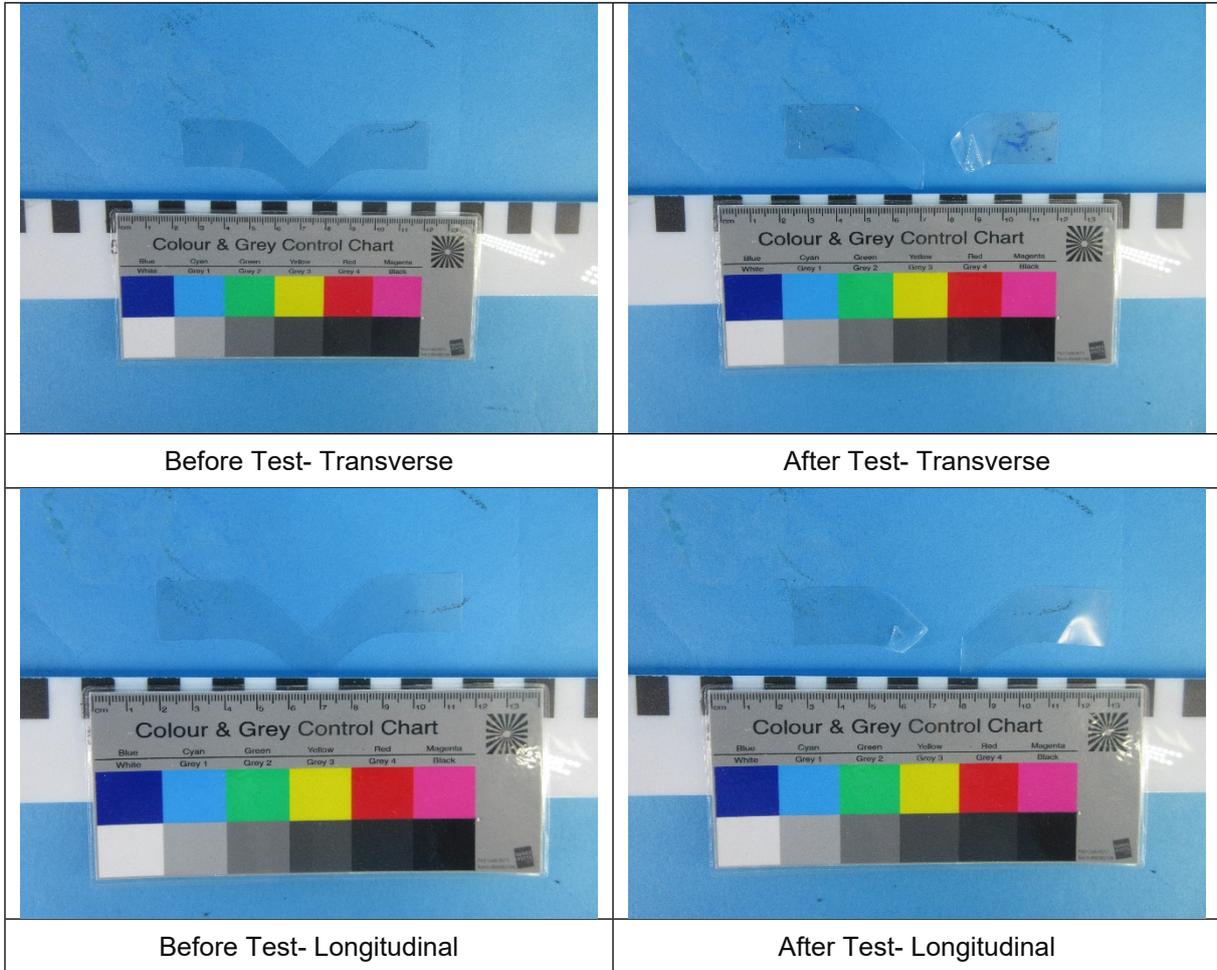
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5. Tensile Test

Sample Description: Film

Test Method: GB/T 528-2009

Test Condition:

Specimen: Type 1

Specimen thickness: 0.189 mm

Testing speed: 500 mm/min

Gauge length: 25 mm

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

Test Result:

| Test Item | Test Result | |
|---------------------|-------------|----------|
| Tensile Strength | Transverse | 20.6 MPa |
| Elongation at Break | Transverse | 257 % |

Note:

1. Test specimens were cut from the sample.
2. Remove protective film and release film before testing.



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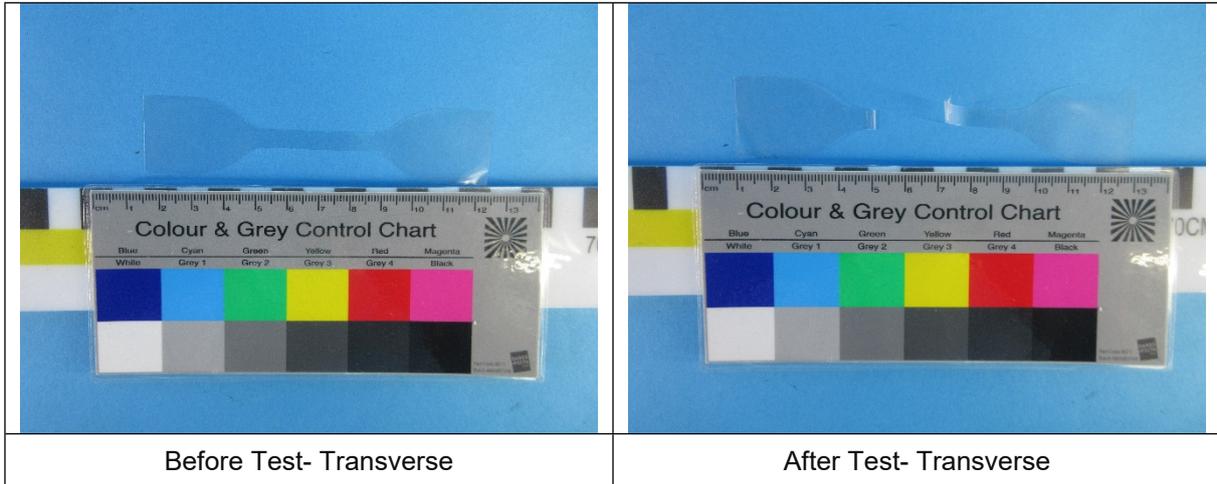
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Test Photo:



6. 180° Peel Strength Test

Sample Description: Film

Test Method: GB/T 2792-2014 Method 4

Client's Requirement: Specimen width: 46.85 mm

Test Condition:

Specimen width: 46.85 mm

Testing speed: 300 mm/min

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

Test Result:

| Test Item | Test Result |
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| 180° Peel Strength | 10.4 N/cm |



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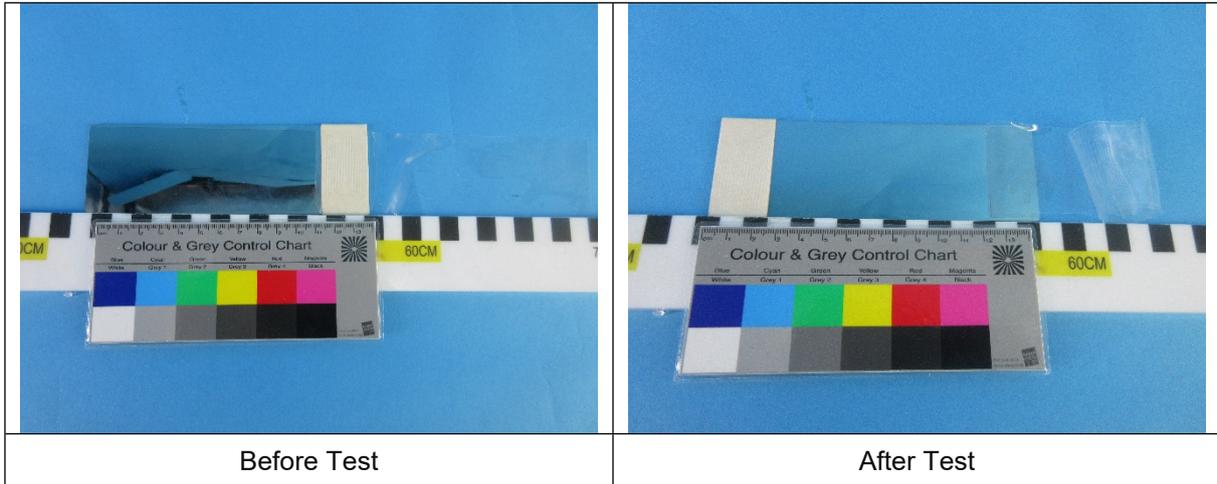
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Test project/method was carried out by subcontractors.

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