

## TEST REPORT

No. : SHIN1805030757PS

Date : May 29, 2018

Page: 1 of 12

CUSTOMER NAME: SHANDONG BOCHUANG SEAL CO., LTD  
ADDRESS: XUYUANZI INDUSTRY ZONE QINGYUN COUNTRY, DEZHOU CITY,  
SHANDONG PROVINCE, CHINA

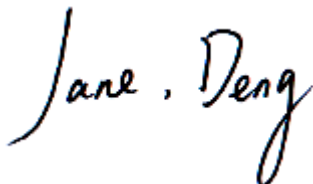
Sample Name : Meter seal

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 : May 10, 2018  
Testing Start Date : May 10, 2018  
Testing End Date : May 29, 2018  
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.



Jane Deng  
Authorized signatory



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Original Sample Photo:



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1. Test Item: Major Composition Qualitative Analysis

Sample Description: Transparent plastic particle

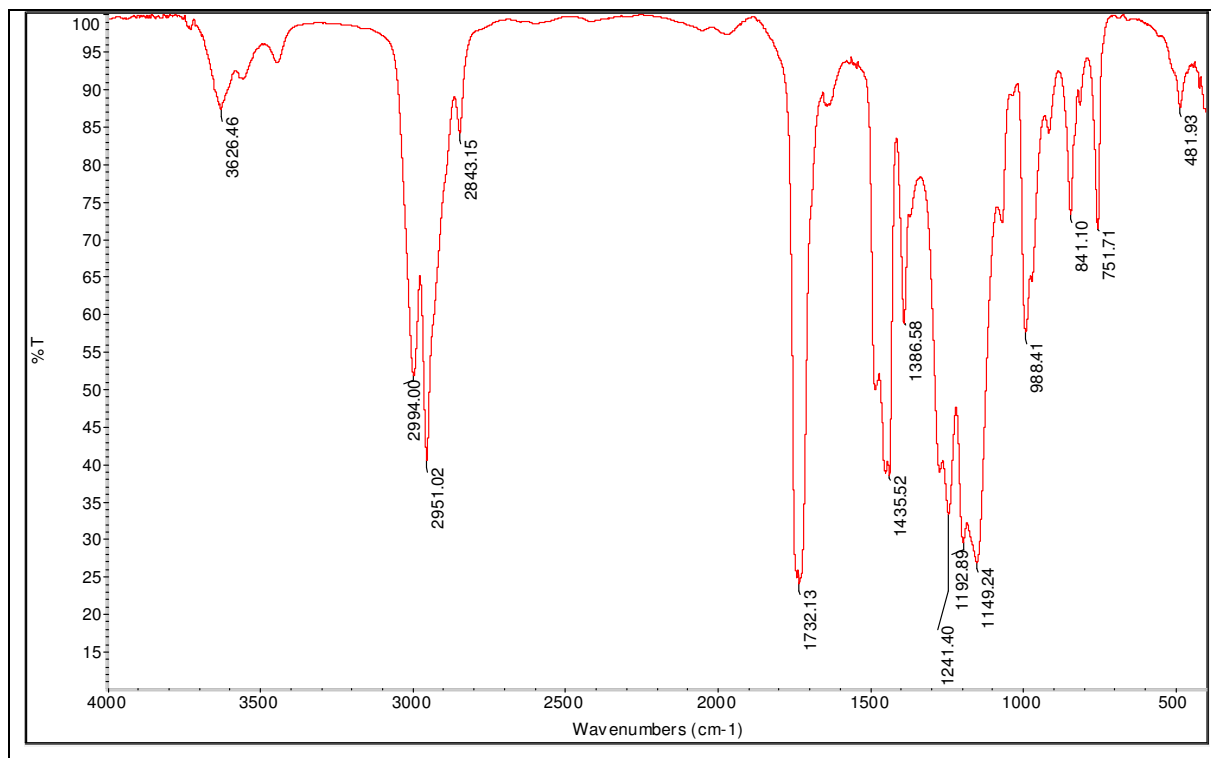
Test Method: ASTM E1252-98(2013)<sup>e1</sup>, analysis was performed by FTIR.

Sample Technique: Hot-pressed film

Test Result:

Sample	Major composition
Transparent plastic particle	Poly(methyl methacrylate) (PMMA) (FTIR spectrum see Fig.1)

Fig.1



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Test Photo:



Original Sample



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Testing Center-Materials (China) Co., Ltd.

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### 2. Test Item: Density

Sample Description: Transparent plastic particle

Test Method: ASTM D792-13 Method B

Test Condition:

Absolute alcohol, 23 ± 0.5 °C

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

Test Result:

Test Item	Test Result
Density	1.19 g/cm <sup>3</sup>

Note: Test specimens were cut from the injection molded sample.

### 3. Test Item: Flexural Test

Sample Description: Transparent plastic particle

Test Method: ASTM D790-17 Procedure A

Test Condition:

Specimen: 127.44 mm×12.659 mm×3.154 mm

Testing speed: 1.3 mm/min

Span: 50 mm

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

Test Result:

Test Item	Test Result
Flexural Strength	99.1 MPa
Flexural Modulus	3490 MPa

Note: Test specimens were injection molded.



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#### 4. Test Item: Melt Mass Flow Rate

Sample Description: Transparent plastic particle

Test Method: ASTM D1238-13 Procedure A

Test Condition:

Drying condition: 80 °C, 2 h

Test condition: 230 °C, 3.8 kg

Test Result:

Test Item	Test Result
Melt Mass Flow Rate	16.4 g/10min

#### 5. Test Item: Neutral Salt Spray Test

Sample Description: Transparent plastic particle

Test Method: ASTM B117-16 and client's requirement

Test Condition:

Concentration of solution collected: (5±1)% NaCl(m/m)

Chamber temperature: (35±2)°C

Volume of salt solution collected: (1.0~2.0)ml/(80cm<sup>2</sup>·h)

pH of collected solution at (23±3)°C: 6.5~7.2

Exposure period: 48h

Test Result:

Sample	Appearance
1	No visible change.

Note: Test specimens were cut from the injection molded sample.



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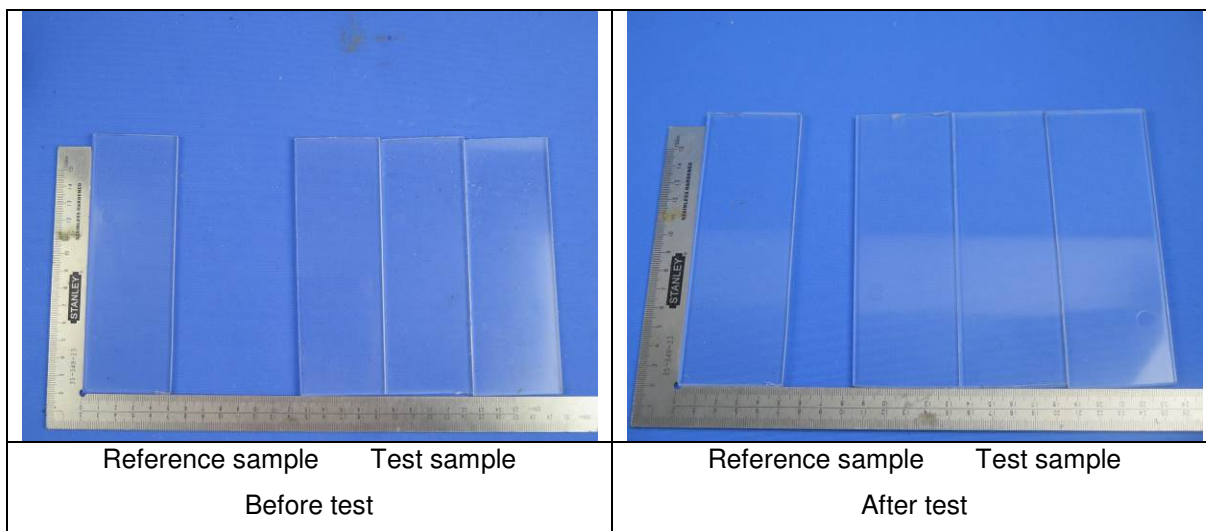
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Test Photo:



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**6. Test Item: Rockwell Hardness**

Sample Description: Transparent plastic particle

Test Method: ASTM D785-08(2015) Procedure A

Test Condition:

Specimen thickness: 6.10 mm

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

Test Result:

Test Item	Test Result
Rockwell Hardness	108.0 L

Note: Test specimens were cut from the injection molded sample.

**7. Test Item: Tensile Test**

Sample Description: Transparent plastic particle

Test Method: ASTM D638-14

Test Condition:

Specimen: Type I

Specimen thickness: 3.210 mm

Specimen width of narrow part: 13.131 mm

Testing speed: 50 mm/min

Gauge length: 50 mm

Distance between grips: 115 mm

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

Test Result:

Test Item	Test Result
Tensile Strength	78.9 MPa
Elongation at Break	3.6 %

Note: Test specimens were injection molded.



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8. Test Item: Light Ageing Test-UV Exposure

Sample Description: Plastic

Test Method: ASTM G53-84

Test Condition:

Exposure cycle:

Lamp type: UVA-340

4h UV at 60°C BPT, 0.76W/(m<sup>2</sup>•nm)@340nm

4h condensation at 50°C BPT

Exposure duration: 96h

Test Result:

Test Item	Grey scale	Appearance
Light Ageing Test-UV Exposure	4-5	Visible cracking

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.



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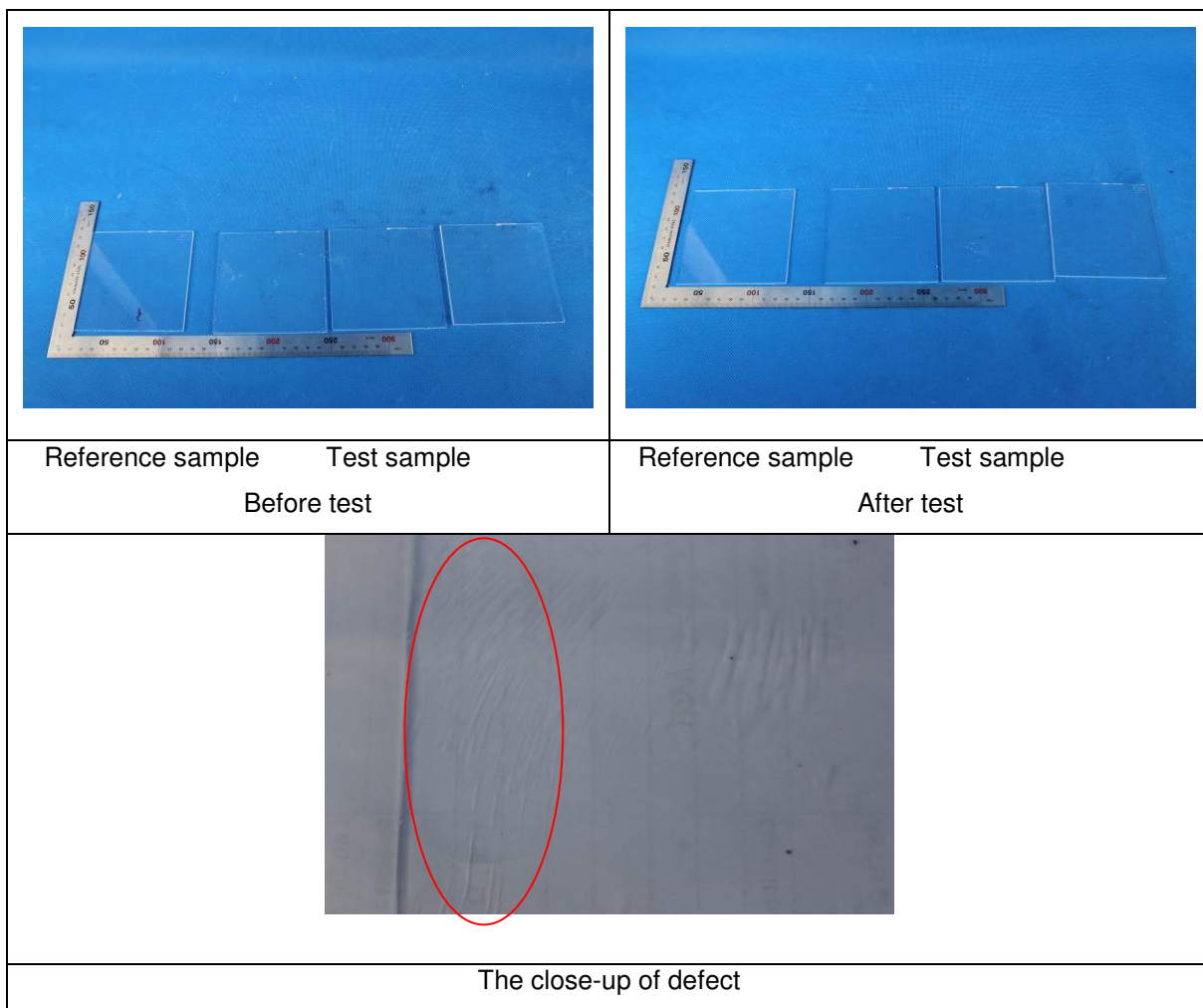
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Test Photo:



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9. Test Item: Thermal conductivity

Test Method: ASTN C518-17

Test Condition:

Specimen: 305mm×300mm×3.6mm, 1pc

Density: about 1146kg/m<sup>3</sup>

Mean temperature: 25°C

Temperature difference: 15°C

Lab Environmental condition: 23±2°C, 50±5%RH

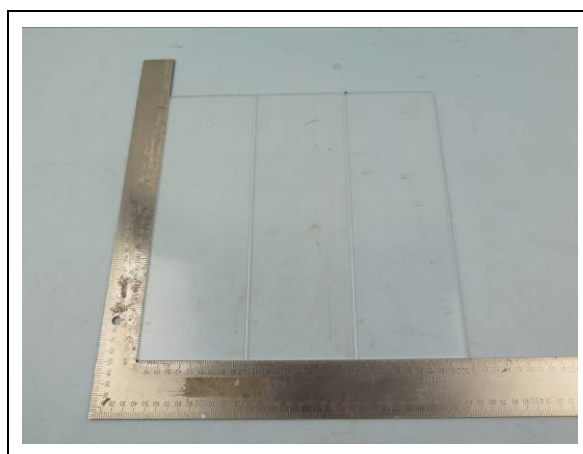
Test Result:

Test Item	Test Result
Thermal conductivity	0.060 W/(m·K)

Note:

1. The test result cannot be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.
2. The specimen was cut from original sample, and jointed by three pieces.

Specimen photo:



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10. Test Item: Refractive Index Np (73°F)

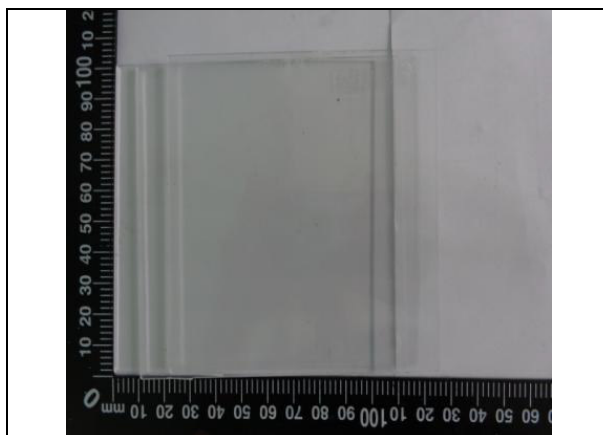
Sample Description: Solid

Test Method: ASTM D542-14 《Standard Test Method for Index of Refraction of Transparent Organic Plastics》

Test Result:

Test Item	Test Result
Refractive Index Np (73°F)	1.493

Test Photo:



- The test item 8 was performed by SGS other internal laboratory.
- The test item 10 was carried out by external laboratory assessed as competent.

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



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