



## TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 1 of 10

CUSTOMER NAME: JINING XUNDA PIPE COATING MATERIALS CO.,LTD  
ADDRESS: ERSHILIPU INDUSTRIAL PARK, JINING CITY, SHANDONG  
PROVINCE, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : Joint wrap tape  
SGS Ref. No. : SHIN1602006776PS  
Product Specification : XUNDA T6100  
Manufacturer : JINING XUNDA PIPE COATING MATERIALS CO.,LTD  
Date of Receipt : Feb 10, 2016  
Testing Start Date : Feb 10, 2016  
Testing End Date : Feb 16, 2016  
Test result(s) : For further details, please refer to the following page(s)

Signed for  
SGS-CSTC Standards Technical  
Services (Shanghai) Co., Ltd.

Zano Lai

Zano Lai  
Authorized signatory



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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)

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 www.sgs.com.cn  
中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 e sgs.china@sgs.com

## TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 2 of 10

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Tensile Strength	ASTM D1000-10 Section 37~45	87.0N/10mm	/
	Yield Strength		53.3N/10mm	
	Elongation at Break		615%	
2	Total Thickness	ASTM D1000-10 Section 21-27	41.4mil	/
	Backing thickness		14.3mil	
	Adhesive thickness		27.1mil	
3	Water Absorption	ASTM D570-98(2010) <sup>e1</sup>	0.6%	/
4	Peel Strength to To primed steel	ASTM D1000-10 Section 46-53	26.7N/10mm	/
5	Colour	Provided by client	Black	/
6	Volume Resistivity	ASTM D257-14 and client's requirement	See Result	/

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. 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)

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgs.com.cn  
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 3 of 10

1. Test Item: Tensile Test

Sample Description: Tape

Test Method: ASTM D1000-10 Section 37~45

Test Condition:

Specimen width: 25.0mm

Testing speed: 300mm/min

Grip separation: 25mm

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

Test Result:

Test Item	Test Result
Tensile Strength	87.0N/10mm
Yield Strength	53.3N/10mm
Elongation at Break	615%

Note: Test specimens were cut from the sample.

Sample Photo:



## TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 4 of 10

2. Test Item: Thickness

Sample Description: Tape

Test Method: ASTM D1000-10 Section 21~27

Test Condition:

Presser foot: 10mm

Pressure: 50kPa

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

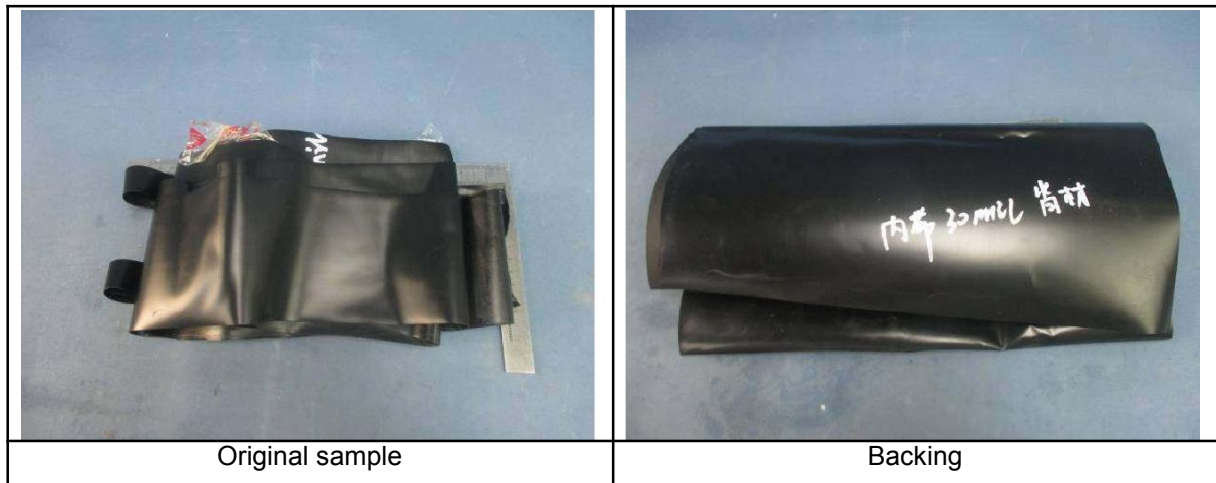
Test Result:

Test Item	Test Result
Total Thickness	41.4mil
Backing thickness	14.3mil
Adhesive thickness	27.1mil

Note:

- 1) The backing is supplied by client.
- 2) Test specimens were cut from the sample.

Sample Photo:



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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)

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21)61196300 f(86-21)68183122/68183920 www.sgs.com.cn  
中国·上海·浦东康桥东路1159弄69号 邮编:201319 t(86-21)61196300 f(86-21)68183122/68183920 e sgs.china@sgs.com

# TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 5 of 10

### 3. Test Item: Water Absorption

Sample Description: Tape

Test Method: ASTM D570-98(2010)<sup>51</sup>

Test Condition:

Specimen: 50mm×50mm×0.799mm

Drying condition: 50±3°C, 24h

Immersion condition: 23±1°C, 24h

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

Test Result:

Test Item	Test Result
Water Absorption	0.6%

Note:

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

Sample Photo:



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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)

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgs.com.cn  
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 6 of 10

#### 4. Test Item: Peel Strength to Steel Plate

Sample Description: Tape

Test Method: Peel Adhesion Strength ASTM D1000-10 Section 46~53

Test Condition:

Specimen width: 50.50mm

Testing speed: 300mm/min

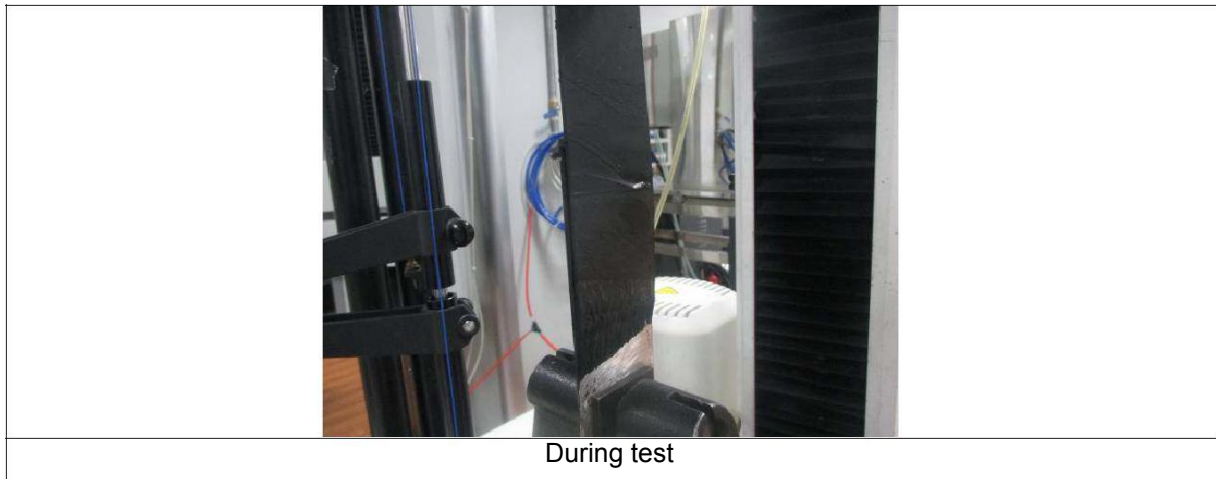
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Peel Strength to Primed Steel	26.7N/10mm

Note: Part of the adhesive remains on the steel.

Test Photo:



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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)

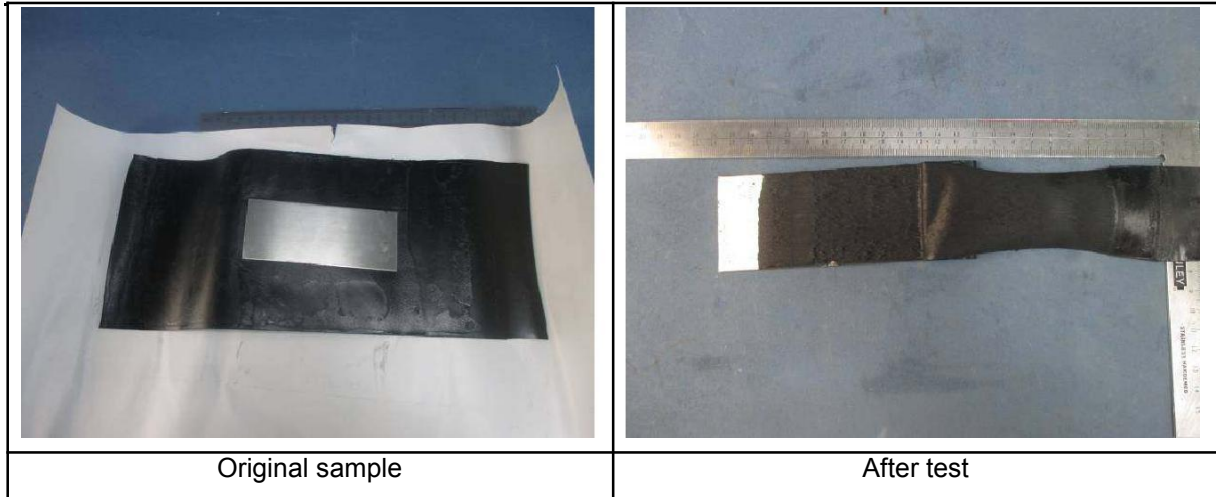
No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgs.com.cn  
中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 7 of 10



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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)

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgsgroup.com.cn  
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

# TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 8 of 10

5. Test Item: Colour

Sample Description: Tape

Test Method: Provided by client

Test Condition:

Visual examination.

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

Test Result:

Test Item	Test Result
Color	Black

Note: Test specimens were cut from the sample.

Sample Photo:



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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)

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgs.com.cn  
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



## TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 9 of 10

6. Test Item: Volume Resistivity

Sample Description: Black tape

Test Method: ASTM D257-14 and client's requirement

Test Condition:

Precondition: 23 ± 2 °C, 50 ± 5 %RH, 48 h

Test condition: 23 ± 2 °C, 50 ± 5 %RH

Test electrode diameter: 63 mm

Test voltage: 100 Vdc

Electrification time: 1 min

Test Result:

Specimen	Specimen Thickness (mm)	Test Result	
		Volume Resistance R <sub>v</sub> ( )	Volume Resistivity ρ <sub>v</sub> ( ·cm)
1	0.81	>2.0×10 <sup>12</sup>	>7.70×10 <sup>14</sup>
2	0.82	>2.0×10 <sup>12</sup>	>7.60×10 <sup>14</sup>
3	0.82	>2.0×10 <sup>12</sup>	>7.60×10 <sup>14</sup>
4	0.82	>2.0×10 <sup>12</sup>	>7.60×10 <sup>14</sup>
5	0.81	>2.0×10 <sup>12</sup>	>7.70×10 <sup>14</sup>
Average	--	--	>7.64×10 <sup>14</sup>

Note: 1. Test specimens were cut from the sample

2. The test result is beyond the upper limit of the test equipment.



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. 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)

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgsgroup.com.cn  
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

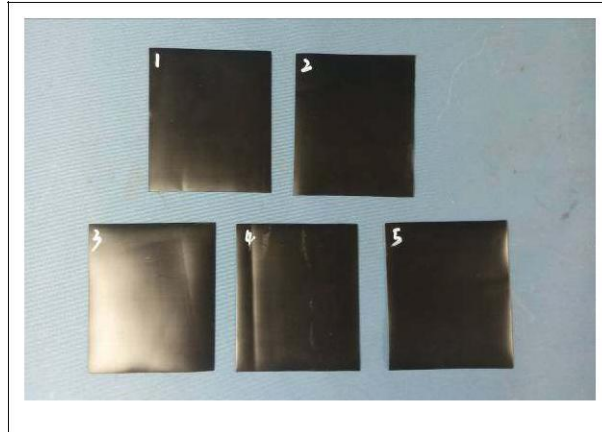
# TEST REPORT

No. : SHIN1602006853MR

Date : Feb 27, 2016

Page: 10 of 10

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Heavy hammer type electrostatic resistance tester	TOM 600ME	P-102	2015-4-9	2017-4-8

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. 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)

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 www.sgsgroup.com.cn  
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t (86-21) 61196300 f (86-21) 68183122/68183920 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)