

Test Report

No. SDHL1810022987HI

Date: Oct.22, 2018

Page 1 of 4

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

Sample Description : SPC FLOOR
Sample Receiving Date : Oct.04, 2018
Test Performing Date : Oct.10, 2018 to Oct.22, 2018

Test Result Summary

No.	Test item	Test(s) Requested(Method)	Result(s)	Comments
1	Density	EN ISO 23996-2012 Method A	Refer to next page	/
2	Curling	EN ISO 23999:2012	Refer to next page	/
3	Dimensional stability	ASTM F1700-13A & ASTM F 2199-09	Pass	/
4	Peel resistance	EN ISO 24345-2012	Refer to next page	/
For further details, please refer to the following page(s)				

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.



Peter Zhao
Approved signatory



Unless otherwise agreed in writing, 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

SGS-CSTC Shunde Branch Technical Services Co., Ltd.
Shunde Branch Harbin

1/F, 1st Building European Industrial Park, No.1 Shunde South Road, Wusha Section, Daliang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgs.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Test Report

No. SDHL1810022987HI

Date: Oct.22, 2018

Page 2 of 4

Test Information:

Sample description: See photo

1. Test item: Density

Test method: EN ISO 23996-2012 Method A

Test condition: /

Test environment: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\%\text{RH}$

Test result:

Sample	Density(g/cm ³)	Conclusion
A	2.00	/

2. Test item: Curling

Test method: EN ISO 23999:2012

Test condition:

Place the test specimens horizontally on to support plates, previously placed in the oven, and allow to come to $(80 \pm 2)^{\circ}\text{C}$. Maintain the test specimens at this temperature for 6 h in the oven.

Sample	Curling	Conclusion
A	0.1mm	/



Unless otherwise agreed in writing, 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

SGS-CSTC (Shunde) Technical Services Co., Ltd.
Shunde Branch Harbin

1/F, 1st Building European Industrial Park, No.1 Shunhe South Road, Wusha Section, Daliang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgs.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号楼首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Test Report

No. SDHL1810022987HI

Date: Oct.22, 2018

Page 3 of 4

3. Test item: Dimensional stability

Test method: ASTM F1700-13A & ASTM F 2199-09

Test condition:

Place the test specimens horizontally on to support plates, previously placed in the oven, and allow to come to (82 ± 2) °C. Maintain the test specimens at this temperature for 6 h in the oven.

Test environment: (23±2)°C, (50±5)%RH

Test result:

Sample	Dimensional stability		Requirement in ASTM F1700-13A Table 2	Conclusion
A	MD	0.10mm	≤0.51mm	Pass
	AMD	0.11mm		Pass

Note: MD- Manufacturing direction

AMD- Perpendicular to the manufacturing direction

4. Test item: Peel resistance

Test method: EN ISO 24345-2012

Test condition:

Test Speed: (100±5)mm/min

Atmosphere Conditioning: (23±2) °C, (50±5) %RH

Test results:

Test direction		Stripping resistance(N)	Minimum value(N)	Average value(N)
MD	#1	69.2	69.2	72.0
	#2	74.7		
	#3	72.0		
TD	#1	71.4	69.3	70.6
	#2	69.3		
	#3	71.2		



Unless otherwise agreed in writing, 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

SGS-CSTC (Shunde) Technical Services Co., Ltd.
Shunde Branch Harimex

1/F, 1 Building European Industrial Park, No.1 Shunhe South Road, Wusha Section, Dailing Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgs.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号楼首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Test Report

No. SDHL1810022987HI

Date: Oct.22, 2018

Page 4 of 4

Photo Appendix:



End of Report



Unless otherwise agreed in writing, 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

SGS-CSTC Shunde Branch
Shunde Branch Harimex

1/F, 1 Building European Industrial Park, No.1 Shunhe South Road, Wusha Section, Daliang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgs.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com