

Test Report

No. SHAHG1526719001

Date: 04 Jan 2016

Page 1 of 8

CHANGZHOU JISHENG PLASTIC INDUSTRY CO.,LTD

HEFENG ROAD NO.21, WUGANG VILLAGE, ZHENGLU TOWN, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PVC CLING FILM

SGS Job No. : SHHG1511045834CW - SH
 Manufacturer : CHANGZHOU JISHENG PLASTIC INDUSTRY CO.,LTD
 Supplier : CHANGZHOU JISHENG PLASTIC INDUSTRY CO.,LTD
 Country of Origin : CHINA
 Date of Sample Received : 28 Dec 2015
 Testing Period : 28 Dec 2015 - 04 Jan 2016
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Overall migration	PASS
Sensorial examination odour and taste test	PASS
Specific migration of phthalate	PASS
Specific migration of bisphenol-A(BPA)	PASS
Specific migration of heavy metal	PASS
Residual vinyl chloride monomer	PASS
Phthalates	PASS
Bisphenol-A	PASS



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.
 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-CTI Standards Technical Services (Shanghai) Co., Ltd.
 Testing Center for Client's Laboratory.

3rd Building, No.889 Yishan Road Xuhui District, Shanghai China 200233
 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

tE&E (86-21) 61402553 fE&E (86-21) 64953679 www.sgs.com.cn
 tHL (86-21) 61402594 fHL (86-21) 61156899 e sgs.china@sgs.com

Test Report

No. SHAHG1526719001

Date: 04 Jan 2016

Page 2 of 8

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Serena Wang

Approved Signatory

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be used for publicity, without prior written approval of the SGS.



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.

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 Standards Technical Services (Shanghai) Co., Ltd.
Testing Center

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

Test Report

No. SHAHG1526719001

Date: 04 Jan 2016

Page 3 of 8

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA15-267190.001	Transparent plastic film	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Overall migration

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine overall migration.

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;
EN 1186-3: 2002 aqueous food simulants by total immersion method;

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001 Overall migration	Conclusion
10% Ethanol (V/V) aqueous solution	240.0hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS
3% Acetic acid (W/V) aqueous solution	240.0hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

- (1) Analytical tolerance of aqueous simulants is 1 mg/dm² or 6mg/kg.
- (2) Test condition & simulant were specified by client.

Sensorial examination odour and taste test

Test Requested : In accordance with Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, to determine sensorial examination odour and taste.



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.

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

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

Test Report

No. SHAHG1526719001

Date: 04 Jan 2016

Page 4 of 8

Test Method : With reference to DIN 10955:2004
Test media: Distilled water
No. of panelist: 6

Test Item(s)	Limit	001
Test time (hr(s))	-	72
Temperature(°C)	-	70
Sensorial examination odour (Point scale)	2.5	0
Sensorial examination taste (Point scale)	2.5	0
Conclusion		PASS

Notes :

Scale evaluation:

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Specific migration of phthalate

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments to determine specific migration of phthalates.

Test Method : With reference to EN13130-1: 2004; analysis was performed by GC-MS.

Sample 001

Simulant Used : 95% Ethanol (V/V) aqueous solution
Test Condition : 60 °C 72.0 hr(s)

Test Item(s)	CAS NO.	Max. Permissible Limit	Unit	MDL	Test result
Benzylbutyl Phthalate(BBP)	85-68-7	30	mg/kg	0.05	ND
Dibutyl Phthalate(DBP)	84-74-2	0.3	mg/kg	0.05	ND
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND
Diisononyl phthalate + Diisodecyl phthalate (DINP + DIDP)	68515-48-0 and 26761-40-0	9	mg/kg	0.2	ND
Diallyl Phthalate (DAP)	131-17-9	0.01	mg/kg	0.01	ND
Conclusion					PASS

Sample 001



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.

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-CLAS Standards Technical Service (Shanghai) Co., Ltd.
Testing Center for Textiles and Textiles Technology

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

Test Report

No. SHAHG1526719001

Date: 04 Jan 2016

Page 5 of 8

Simulant Used : Isooctane
Test Condition : 40 °C 18.0 hr(s)

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Benzylbutyl Phthalate(BBP)	85-68-7	30	mg/kg	0.05	ND
Dibutyl Phthalate(DBP)	84-74-2	0.3	mg/kg	0.05	ND
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND
Diisononyl phthalate + Diisodecyl phthalate (DINP + DIDP)	68515-48-0 and 26761-40-0	9	mg/kg	0.2	ND
Diallyl Phthalate(DAP)	131-17-9	0.01	mg/kg	0.01	ND
Conclusion					PASS

Notes :

(1) Test condition & simulant were specified by client.

Specific migration of bisphenol-A(BPA)

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments to determine specific migration of bisphenol A.

Test Method : With reference to EN 13130-1: 2004, analysis was performed by HPLC-FLD.

Sample 001

Simulant Used : 3% Acetic acid (W/V) aqueous solution
Test Condition : 70 °C 72.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Specific migration of bisphenol A	0.6	mg/kg	0.2	ND
Conclusion				PASS

Notes :

(1) Test condition & simulant were specified by client.

Specific migration of heavy metal

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine specific migration of heavy metal.

Test Method : With reference to EN13130-1:2004; analysis was performed by ICP-OES.



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.
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

3rd Building, No.889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

tE&E (86-21) 61402553 fE&E (86-21) 64953679 www.sgs.com.cn
tHL (86-21) 61402594 fHL (86-21) 61156899 e sgs.china@sgs.com

Test Report

No. SHAHG1526719001

Date: 04 Jan 2016

Page 6 of 8

Sample 001

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70 °C 72.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	25	mg/kg	0.5	ND
Conclusion				PASS

Notes :

(1) Test condition & simulant were specified by client.

Residual vinyl chloride monomer

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine residual vinyl chloride monomer.

Test Method : In-house method (SHTC-CHEM-SOP-171-T), analysis was performed by HS-GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
VCM(Vinyl Chloride Monomer)	1	mg/kg	0.5	ND
Conclusion				PASS

Phthalates

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine phthalates.

Test Method : Solvent extraction, analysis was performed by GC-MS.



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.

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

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgs.com.cn
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

Test Report

No. SHAHG1526719001

Date: 04 Jan 2016

Page 7 of 8

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	0.05	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.01	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.01	ND

Bisphenol-A

Test Requested : In accordance with Commission Implementing Regulation (EU) 321/2011 amending Regulation (EU) 10/2011 of 14 January 2011, to determine bisphenol A.

Test Method : With reference to Part II Section D2 of Japan External Trade Organization, 2009, analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Bisphenol-A	★	mg/kg	0.1	ND
Conclusion	PASS			

Notes :

★=prohibited



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.

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 Standards Technical Services (Shanghai) Co., Ltd.
Testing Center

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com

Test Report

No. SHAHG1526719001

Date: 04 Jan 2016

Page 8 of 8

Sample photo:



SGS authenticate the photo on original report only

*** 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-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.

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-Technical Services (Shanghai) Co., Ltd.
Testing Center

3rd Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgsgroup.com.cn
t HL (86-21) 61402594 f HL (86-21) 61156899 e sgs.china@sgs.com