



Test Report

No. XMNEC1600938001

Date: 05 Aug 2016

Page 1 of 8

ZHANGZHOU YABANG CHEMICAL CO.,LTD

JINFENG MANUFACTURE ZONE,ZHANGZHOU CITY,FUJIAN PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as : UNSATURATED POLYESTER RESIN

SGS Job No. : XM17272163EC - XM

Date of Sample Received : 01 Aug 2016

Testing Period : 01 Aug 2016 - 05 Aug 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).

Conclusion : Based on the performed tests on submitted sample(s), the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) do not exceed the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch

Miranda Peng
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch

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.
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 0307 1443, or email: CN.Doccheck@sgs.com
No. 31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5766995 | (86-592) 5766999 | www.sgs.com.cn
中国·厦门·厦门市火炬(翔安)产业区翔虹路31号 邮编: 361101 | (86-592) 5766995 | (86-592) 5766999 | sgs.china@sgs.com



Test Report

No. XMNEC1600938001

Date: 05 Aug 2016

Page 2 of 8

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	XMN16-009380.001	Transparent liquid

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

- Test Method :
- (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
 - (2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
 - (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
 - (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
 - (5)With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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-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 herein 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) 0307 1443, or email: CH_Onlinehelp@sgs.com

SGS (SU) Testing Services Co., Ltd.
Xiamen Branch Testing Services Laboratory

No. 31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5766995 | (86-592) 5766999 | www.sgs.com
中国·福建·厦门市火炬(翔安)产业区翔虹路31号 邮编: 361101 | (86-592) 5766995 | (86-592) 5766999 | sgs.china@sgs.com



Test Report

No. XMNEC1600938001

Date: 05 Aug 2016

Page 4 of 8

Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Dibutyl Phthalate (DBP)	84-74-2	% (w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	% (w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	% (w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	% (w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	% (w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	% (w/w)	0.010	ND
Dimethyl Phthalate (DMP)	131-11-3	% (w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	% (w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	% (w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	% (w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	% (w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	% (w/w)	0.003	ND



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/inf/infoma-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/inf/infoma-and-conditions/Terms-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) 3307 1443, or email: CN_Doccheck@sgs.com

SGS-CSI Technology Services Co., Ltd. | No. 31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5766995 | (86-592) 5766999 | www.sgs.com.cn
 Xiamen Branch Testing & Inspection Laboratory | 中国·福建·厦门市火炬(翔安)产业区翔虹路31号 | 邮编: 361101 | (86-592) 5766995 | (86-592) 5766999 | sgs.china@sgs.com



Test Report

No. XMNEC1600938001

Date: 05 Aug 2016

Page 5 of 8

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dicyclohexyl Phthalate (DCHP)	84-61-7	% (w/w)	0.003	ND
Dipentyl Phthalate (DPP)	131-18-0	% (w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	% (w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	% (w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	% (w/w)	0.003	ND

Notes :

(1)DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

(2)DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

(3) The result(s) shown is/are of the total weight of wet sample.



SGS-CTI (Singapore) Pte. Ltd.
Xiamen Branch Testing & Inspection Laboratory

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/In/Forms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/In/Forms-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 herein 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.

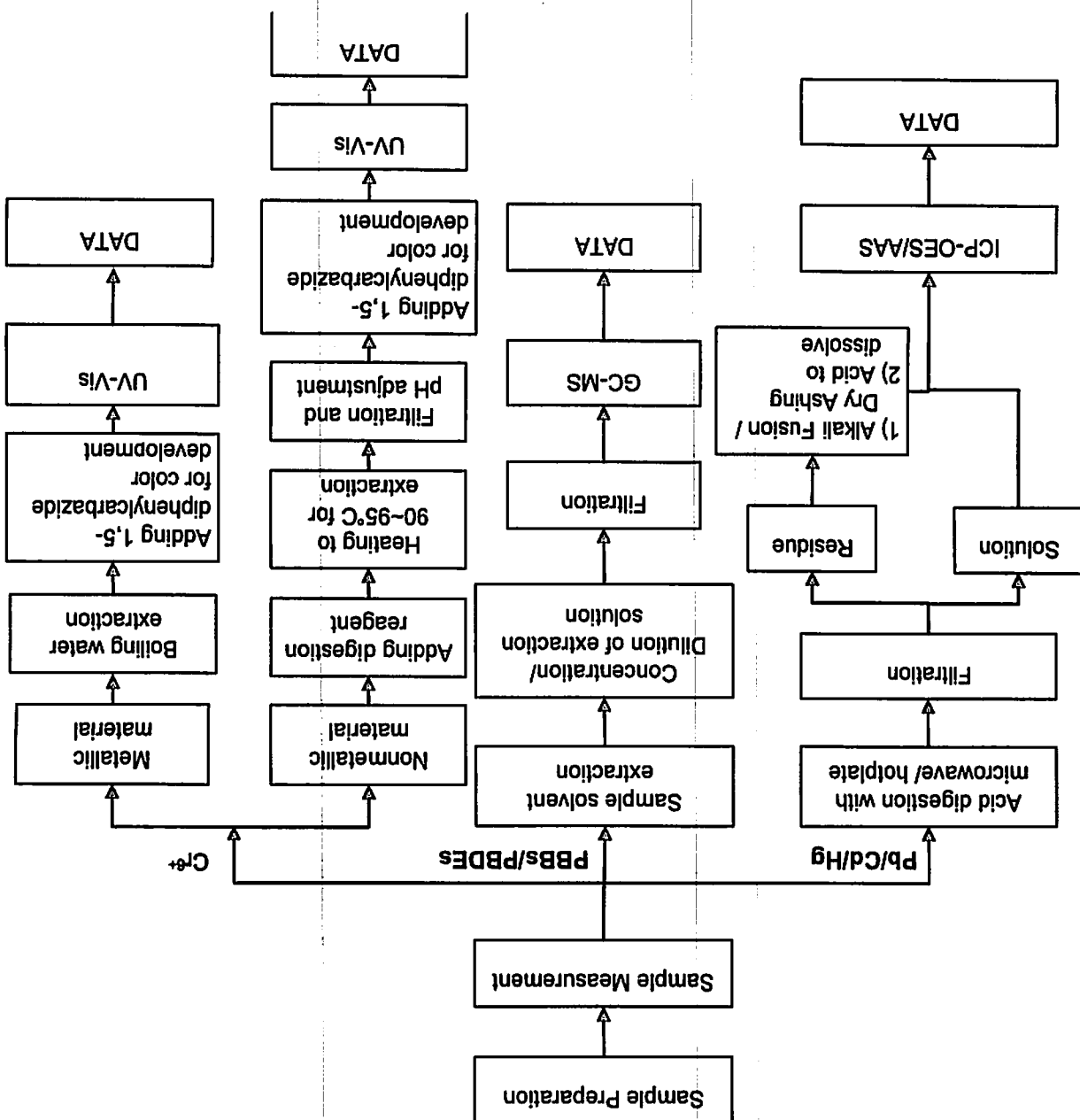
Attention: To check the authenticity of testing / inspection report & certificates, please contact us at telephone: (86-755) 8307 1433, or email: CN_Quechek@sgs.com

No. 31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5766995 | (86-592) 5766999 | www.sgs.com
中国·福建·厦门市火炬(翔安)产业区翔虹路31号 邮编: 361101 | (86-592) 5766995 | (86-592) 5766999 | sgs.china@sgs.com

ATTACHMENTS

Pb/Cd/Hg/Cr⁶⁺/PBBS/PBDES Testing Flow Chart

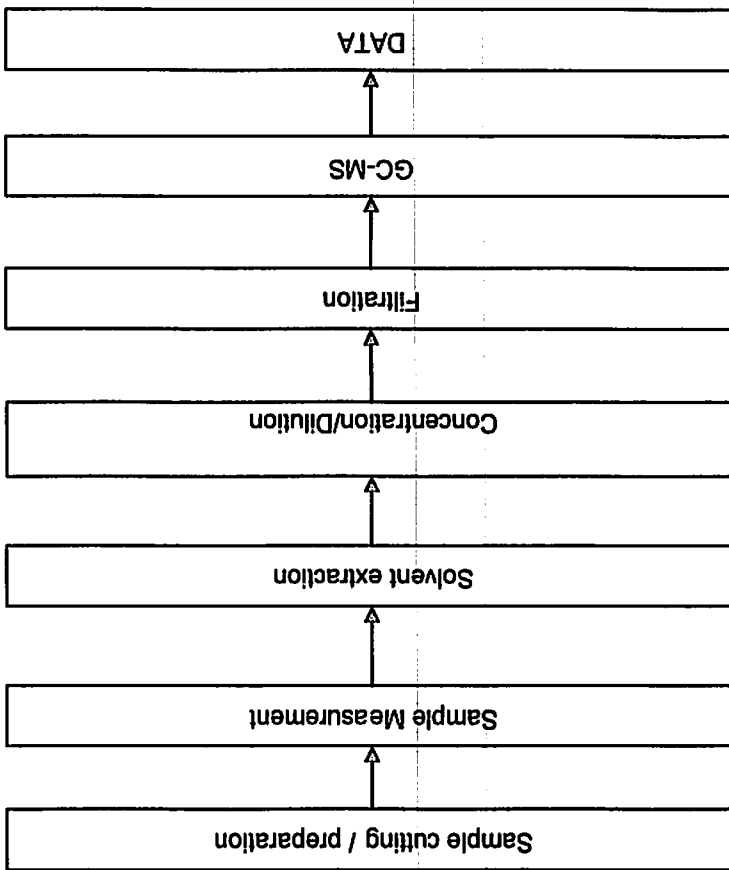
- (1) Name of the person who made testing: Sunny Lu / Holly Chen
- (2) Name of the person in charge of testing: Sharon Liu
- (3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBS/PBDES test method excluded).



ATTACHMENTS

Phthalates Testing Flow Chart

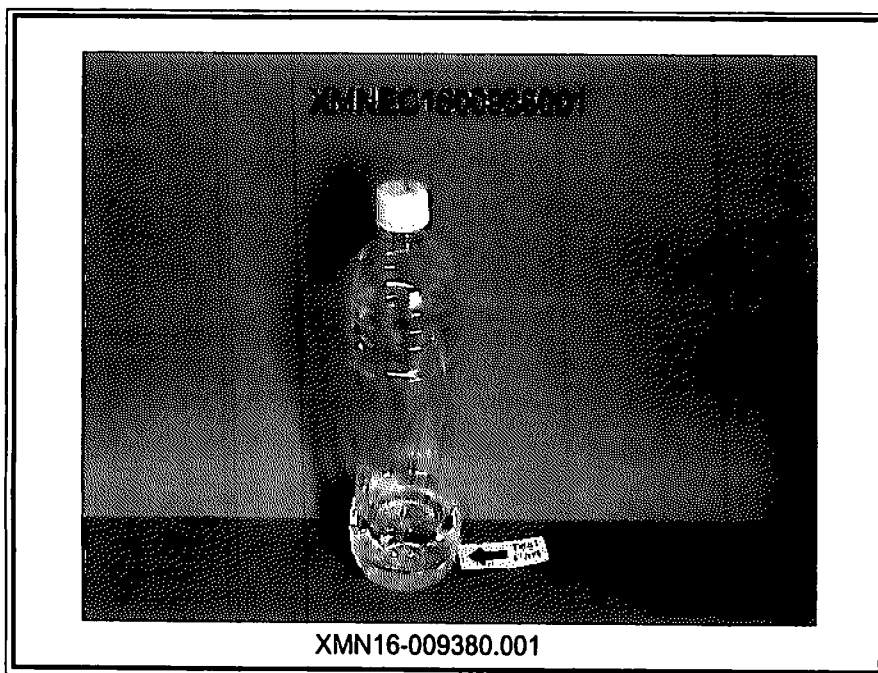
- 1) Name of the person who made testing: Holly Chen
- 2) Name of the person in charge of testing: Sharon Liu



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed
 subject to terms and conditions for Electronic Documents at <http://www.sgs.com/eng/terms-and-conditions.aspx> and, for electronic format documents,
 Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is
 advised that information contained herein 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 constitute a
 transaction from exceeding all their rights and obligations under the transaction document. 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 report refer only to the complete (or tested) test(s). To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,
 or email: CN.Inquiry@sgs.com
 No. 31 Xiangyang Road, Xiang An (Foshan) Industrial Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5766995 | (86-592) 5766999 | (86-592) 5766999
 中国·福建·厦门市火炬(翔安)产业区翔安路31号 邮编: 361101 | (86-592) 5766995 | (86-592) 5766999 | (86-592) 5766999 | (86-592) 5766999
 www.sgs.com.cn | sgschina@sgs.com



Sample photo:



SGS authenticate the photo on original report only

*** 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 herein 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) 0307 1443, or email: CN_Doccheck@sgs.com

SGS (Suzhou) Inspection & Testing Services Co. Ltd.
苏州保税区检测与测试服务有限公司

No. 31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5766995 | (86-592) 5766999 | www.sgs.com.cn
中国·福建·厦门市火炬(翔安)产业区翔虹路31号 邮编: 361101 | (86-592) 5766995 | (86-592) 5766999 | sgs.china@sgs.com