

# Test Report

No. NGBEC1504274501

Date: 17 Nov 2015

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YUYAO GREENYARD TOOLS CO.,LTD.

NO.75 CHANGFENG BRIDGE ROAD,LANJIANG STREET,YUYAO,ZHEJIANG,CHINA.

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

SGS Job No. : NP15-003172 - NB  
 Model No. : GY-608  
 Client Ref. Information : GY-606,GY-609,GY-801,GY-802,GY-803,GY-401,GY-402,GY-403,GY-302,GY-303,  
 GY-304,GY-305,GY-306,GY-307,GY-310,GY-311,GY-312,GY-313,GY-701,GY-702,  
 GY-101,GY-102,GY-103,GY-104,GY-109,GY-110,GY-502,GY-201,GY-202,GY-203,  
 GY-204,GY-205,GY-206,GY-207,GY-209.

Date of Sample Received : 06 Nov 2015  
 Testing Period : 06 Nov 2015 - 13 Nov 2015  
 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 (sample 001~003)	PASS
Overall migration (sample 004)	PASS
Leachable lead and cadmium (sample 006)	PASS
Specific migration of formaldehyde (sample 004)	PASS
Specific migration of formaldehyde (sample 003)	PASS
Specific migration of heavy metal (sample 001~003)	PASS
Lead,cadmium and zinc (sample 004)	PASS
Extractable heavy metals (sample 005)	PASS



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



Iris Xiao  
Approved Signatory



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Ningbo Branch

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	NGB15-042745.001	Transparent plastic cap	PP
SN2	NGB15-042745.002	Translucent solid	PE
SN3	NGB15-042745.003	White solid	POM
SN4	NGB15-042745.004	Translucent rubber ring	Rubber
SN5	NGB15-042745.005	Silvery metal spring	Metal
SN6	NGB15-042745.006	Transparent glass ball	Glass

Overall migration (sample 001~003)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, 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 conditions and EN1186-1:2002 for selection of test method; EN1186-3:2002 aqueous food simulants by total immersion method.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
20% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002 Overall Migration</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
20% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003 Overall Migration</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>



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20% Ethanol (V/V) Aqueous Solution    2.0hr(s)    70°C    10mg/dm<sup>2</sup>    <3.0mg/dm<sup>2</sup>

Notes :

- (1) Analytical tolerance of aqueous simulants is 1 mg/dm<sup>2</sup>.
- (2) Test condition & simulant were specified by client.

### Overall migration (sample 004)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments BfR recommendation and European Commission Directive 93/11/EEC, to determine Overall migration

Test Method : With reference to EN 1186-1:2002 for selection of conditions and test methods; EN 1186-3:2002 aqueous food simulants by total immersion method.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 004 Overall Migration</u>
10% Ethanol (V/V) aqueous solution	10minute(s)	40°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
3% Acetic acid (W/V) aqueous solution	10minute(s)	40°C	50mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>

Notes :

- (1) Analytical tolerance of aqueous simulants is 1 mg/dm<sup>2</sup>
- (2) Category 1 contains commodities (articles and materials) which as a result of their intended use come into contact with foodstuffs for periods of between 24 hours and up to several months.
- (3) Category 2 contains commodities (articles and materials) that, when used as intended, come into contact with foodstuffs for no more than 24 hours.
- (4) Category 3 contains commodities (articles and materials) that, when applied as intended, come into contact with foodstuffs for no more than 10 minutes (short contact).
- (5) Special Category contains commodities intended for use as eating utensils or which may be expected to be placed in the mouth (e.g. toys).
- (6) The material category 3 was given by the client and not assessed by SGS

### Leachable lead and cadmium (sample 006)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 with amendments, DIN 51032:1986, to determine leachable lead and cadmium.

Test Method : With reference to EN 1388-1/2:1995, Analysis was performed by ICP-OES.

**Sample 006** Flatware



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	<u>Vol. of 4% Acetic acid for vessel (mL)</u>	<u>Surface Area (dm<sup>2</sup>)</u>
1	95	0.57
2	95	0.57
	<u>Leachable Lead (mg/dm<sup>2</sup>)</u>	<u>Leachable Cadmium (mg/dm<sup>2</sup>)</u>
1	<0.1	<0.01
2	<0.1	<0.01
Limit	0.8	0.07

Notes :

(1) Permissible limit of lead and cadmium is quoted from DIN51032:1986.

### Specific migration of formaldehyde (sample 004)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments BfR recommendation and European Commission Directive 93/11/EEC, to determine specific migration of formaldehyde.

Test Method : with reference to EN13130-1:2004, followed by analysis by UV-vis.

### Sample 004

Simulant Used : 3% Acetic Acid (W/V)

Test Condition : 20 °C 10min

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Specific migration of formaldehyde	3	µg/mL	0.1	ND

Notes :

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

### Specific migration of formaldehyde (sample 003)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, to determine specific migration of formaldehyde.

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



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## Sample 003

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

Test Condition : 20.0 °C 0.5 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 formaldehyde	15	mg/kg	0.1	ND

Notes :

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

## Specific migration of heavy metal (sample 001~003)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, to determine specific migration of heavy metal.

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

## Sample 001

Simulant Used : Deionized water

Test Condition : 20 °C 0.5 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

## Sample 002

Simulant Used : Deionized water

Test Condition : 20 °C 0.5 hr(s)



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<u>Test Item(s)</u>	<u>Max. Permissible 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

## Sample 003

Simulant Used : Deionized water

Test Condition : 20 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible 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

Notes :

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

## Lead,cadmium and zinc (sample 004)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments BfR recommendation and European Commission Directive 93/11/EEC, to determine lead ,cadmium and zinc

Test Method : Total lead, cadmium and zinc: Acidic digestion, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Total Lead	30	mg/kg	5	ND
Total Zinc	3	%	0.01	0.02
Total cadmium	★	mg/kg	2	ND

Notes :



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(1) ★ = Absent.

**Extractable heavy metals (sample 005)**

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and Council of Europe Resolution CM/Res(2013)9, to determine extractable heavy metals.

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

**Sample 005:**

Simulant Used : Artificial tap water

Test Condition : 20 °C 0.5 hr(s)

Test Item(s)	Limit	Unit	MDL	1st + 2nd Migration
Aluminium (Al)	35	mg/kg	0.2	ND
Antimony (Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.75	mg/kg	0.1	ND
Cobalt(Co)	0.14	mg/kg	0.01	ND
Copper(Cu)	28	mg/kg	0.1	ND
Iron(Fe)	280	mg/kg	0.25	ND
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND
Nickel(Ni)	0.98	mg/kg	0.05	ND
Silver(Ag)	0.56	mg/kg	0.03	ND
Tin(Sn)	700	mg/kg	5	ND
Vanadium(V)	0.07	mg/kg	0.005	ND
Zinc(Zn)	35	mg/kg	1	ND
Arsenic(As)	0.014	mg/kg	0.001	ND
Barium(Ba)	8.4	mg/kg	0.25	ND
Beryllium(Be)	0.07	mg/kg	0.005	ND
Cadmium(Cd)	0.035	mg/kg	0.002	ND
Lead(Pb)	0.07	mg/kg	0.005	ND
Lithium(Li)	0.336	mg/kg	0.02	ND
Mercury(Hg)	0.021	mg/kg	0.002	ND
Thallium(Tl)	0.0007	mg/kg	0.0001	ND
Test Item(s)	Limit	Unit	MDL	3rd Migration
Aluminium (Al)	5	mg/kg	0.2	ND
Antimony (Sb)	0.04	mg/kg	0.02	ND
Chromium(Cr)	0.25	mg/kg	0.1	ND
Cobalt(Co)	0.02	mg/kg	0.01	ND
Copper(Cu)	4	mg/kg	0.1	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>3rd Migration</u>
Iron(Fe)	40	mg/kg	0.25	ND
Iron(Fe)	1.8	mg/kg	0.25	ND
Molybdenum(Mo)	0.12	mg/kg	0.02	ND
Nickel(Ni)	0.14	mg/kg	0.05	ND
Silver(Ag)	0.08	mg/kg	0.03	ND
Tin(Sn)	100	mg/kg	5	ND
Vanadium(V)	0.01	mg/kg	0.005	ND
Zinc(Zn)	5	mg/kg	1	ND
Arsenic(As)	0.002	mg/kg	0.001	ND
Barium(Ba)	1.2	mg/kg	0.25	ND
Beryllium(Be)	0.01	mg/kg	0.005	ND
Cadmium(Cd)	0.005	mg/kg	0.002	ND
Lead(Pb)	0.01	mg/kg	0.005	ND
Lithium(Li)	0.048	mg/kg	0.02	ND
Mercury(Hg)	0.003	mg/kg	0.002	ND
Thallium(Tl)	0.0001	mg/kg	0.0001	ND

Notes :

- (1) Test condition & simulant were specified by client.
- (2) Requirement for repeat use article: According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles
- (3) The ratio of surface area to volume ratio was 6 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
- (4) Acidic foodstuff is not considered for compliance

Remark:

- (1) mg/dm<sup>2</sup> = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) hr = hour
- (5) < = less than
- (6) ND = Not detected(< MDL)
- (7) MDL = Method Detection Limit
- (8) % =percentage by weight
- (9) µg/mL = microgram per milliliter

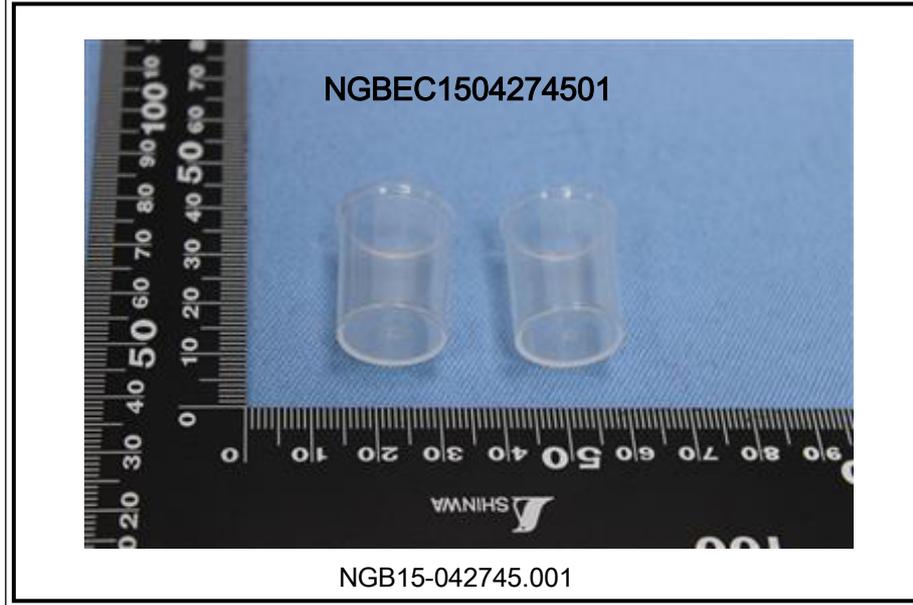


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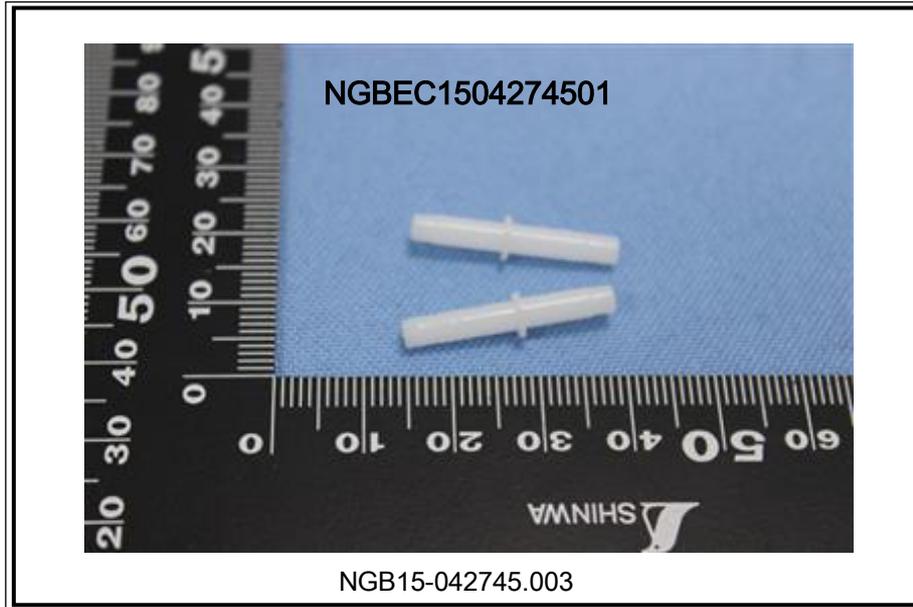
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Sample photo:



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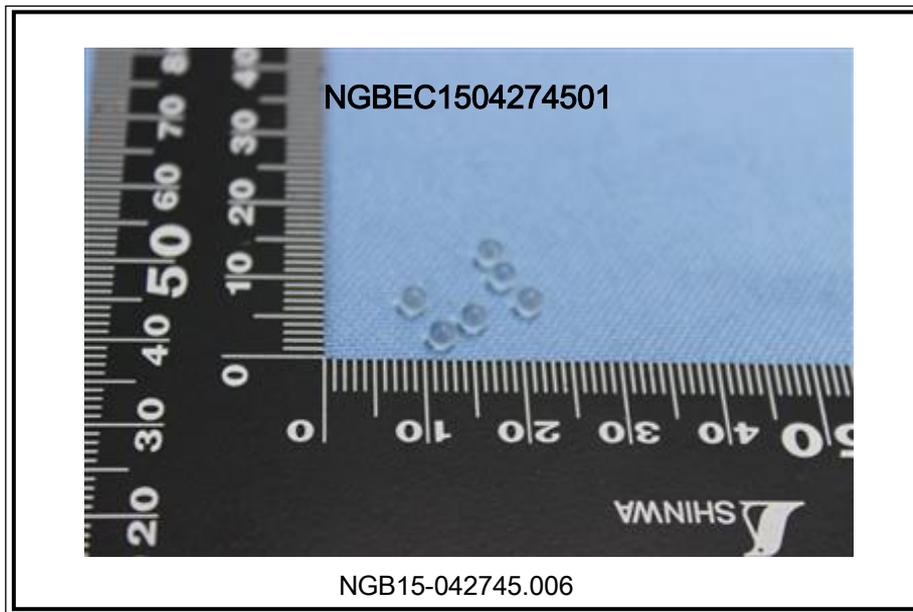
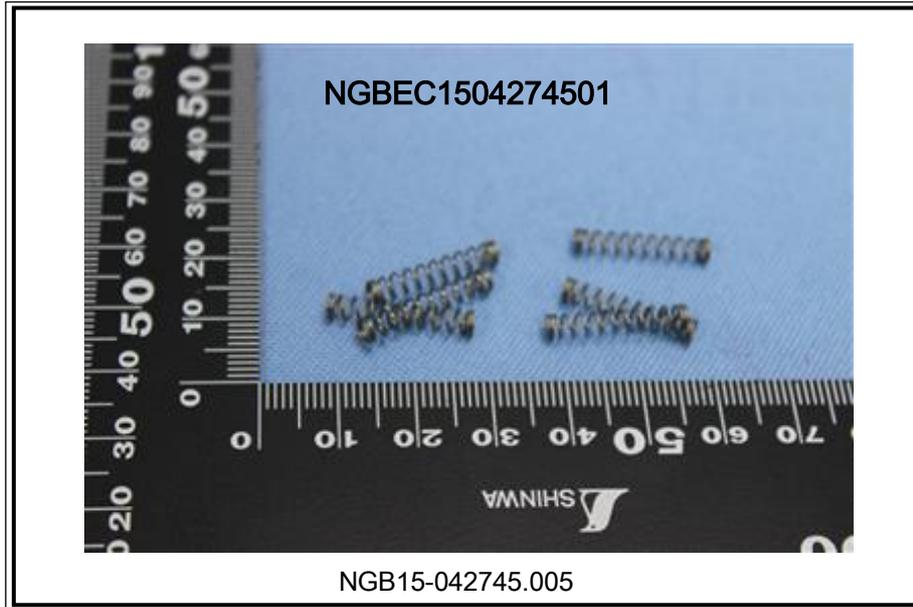
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