

**Test Report** No. NGBEC1806667003 A01 Date: 10 Jan 2019 Page 1 of 6

HONGCAI GREEN PACK INTERNATIONAL LTD 360#B3,YOUZHAN, 258# LVDI ROAD, HUAQIAO, KUNSHAN CITY, JIANGSU PROVINCE, CHINA

### THIS REPORT IS TO SUPERSEDE TEST REPORT No. NGBEC1806667001 DATE: 2018/12/26

The following sample(s) was/were submitted and identified on behalf of the clients as: CPLA CUTLERY(KNIFE, FORK, SPOON)

SGS Job No.: NP18-004536 - NB

Model No.: CPLA-07/06 Date of Sample Received: 19 Dec 2018

Testing Period: 19 Dec 2018 - 26 Dec 2018

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
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-Overall migration	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Sensorial examination odour and taste test	PASS
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-Specific migration of heavy metal	PASS
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-Lead(Pb) and cadmium(Cd)	PASS
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-Polynuclear aromatic hydrocarbons (PAHs)	PASS



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

Approved Signatory



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description Material (claimed by the client)

**CPLA** SN<sub>1</sub> NGB18-066670.001 White plastic

Remarks:

(1) mg/dm<sup>2</sup> = 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)

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-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;

EN1186-3:2002 aqueous food simulants by total immersion method;

EN 1186-14:2002 substitute test.

Simulant Used	<u>Time</u>	<u>Temperature</u>	Max. Permissible Limit	Result of 001 Overall Migration
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm²	<3.0mg/dm²
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm²	<3.0mg/dm²
95% Ethanol (V/V) Aqueous Solution (Rectified Olive Oil Substitute)	2.0hr(s)	60°C	10mg/dm²	<3.0mg/dm²
Isooctane (Rectified Olive Oil Substitute)	0.5hr(s)	40°C	10mg/dm²	<3.0mg/dm²

### Notes:

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm<sup>2</sup>
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm<sup>2</sup>
- (3) Test condition & simulant were specified by client.
- (4) The migration results are based on the first migration.



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# German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Sensorial examination odour and taste test

Test Method: With reference to DIN 10955:2004

Test media: Deionized water

No.of panelist: 6

Test Item(s)	<u>Limit</u>	<u>001</u>
Test time(hr)	-	2
Temperature(°C)	-	70
Sensorial examination odour (Point scale)	2.5	0
Sensorial examination taste (Point scale)	2.5	0

#### Notes:

Scale evaluation:

0 – no perceptible difference

1 – just perceptible difference

2 - slight difference

3 - marked difference

4 - strong difference

# 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-Specific migration of heavy metal

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

# Sample 001

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

Test Condition: 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible	<u>Unit</u>	<u>MDL</u>	Test result
	<u>Limit</u>			
Migration times	-	-	-	1st
Area/volume	-	dm²/kg	-	6.0
Aluminium (AI)	1	mg/kg	0.1	ND
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



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Lithium	0.6	mg/kg	0.5	ND	
Manganese	0.6	mg/kg	0.25	ND	
Zinc	5	mg/kg	0.5	ND	
Nickel	0.02	mg/kg	0.02	ND	

Notes:

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-Lead(Pb) and cadmium(Cd)

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Total Lead	*	mg/kg	2	ND
Total Cadmium	*	mg/kg	2	ND

Notes:

(1) **★=** Absent.

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-Polynuclear aromatic hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Sum of 18 PAHs	1	mg/kg	-	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene,	1	mg/kg	-	ND
Pyrene, Anthracene, Fluoranthene				
Naphthalene(NAP)	1	mg/kg	0.1	ND
Acenaphthylene(ANY)	-	mg/kg	0.1	ND
Acenaphthene(ANA)	-	mg/kg	0.1	ND
Fluorene(FLU)	-	mg/kg	0.1	ND
Phenanthrene(PHE)	-	mg/kg	0.1	ND
Anthracene(ANT)	-	mg/kg	0.1	ND
Fluoranthene(FLT)	-	mg/kg	0.1	ND
Pyrene(PYR)	-	mg/kg	0.1	ND



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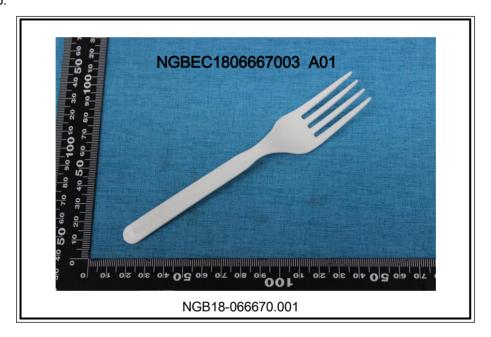
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<sup>(1)</sup> Test condition & simulant were specified by client.



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Test Item(s)		<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Benzo(a)anthracene(BaA)		0.2	mg/kg	0.1	ND
Chrysene(CHR)		0.2	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)		0.2	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)		0.2	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)		0.2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)		0.2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)		0.2	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)		0.2	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)		0.2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)		0.2	mg/kg	0.1	ND
Sample photo:					



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