



Test Report

No. NGBHG1702231502 A01

Date: 13 Jun 2017

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THIS REPORT IS TO SUPERSEDE TEST REPORT NO. NGBHG1702231501 DATE: 2017/06/07

The following sample(s) was/were submitted and identified on behalf of the clients as : PLASTIC POLYPROPYLENE MATERIAL FOLDABLE/COLLAPSIBLE MESH TYPE OR SOLID TYPE CRATE/CONTAINER/BOX

SGS Job No. : NBHL1705007157ST - NB
Item No. : MESH STYLE AND SOLID ZJKN604022W
Country of Origin : CHINA
Style No. : MESH STYLE AND SOLID ZJKN604022W
Client Ref. Information : ZJKN604014W, ZJKN604018W, ZJJK4835255W, ZJJK604024W, ZJJK6040265C, ZJJK604032W, ZJJK604034C, ZJKS604035C, ZJXS604024W, ZJXS6040265C, ZJXS604030W, ZJXS604032C, ZJXS6040355C, ZJXS6040368C, ZJXS533625C, ZJXS5336335C, ZJXS654436C, ZJEU604028W, ZJEU604032W, ZJXS765852C, ZJJK805850W
Date of Sample Received : 17 May 2017
Testing Period : 17 May 2017 - 07 Jun 2017
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 :

Table with 2 columns: Test Requested, Conclusion. Rows include Overall migration, Colour release, Sensorial examination, Specific migration of heavy metal, Lead(Pb) and cadmium, and Polynuclear aromatic hydrocarbons (PAHs).



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15F West of Building 4, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, China 315040 t E&E (86-574)89070249 www.sgs.com
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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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15F West of Building 4, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, China 315040 t E&E (86-574)89070249
中国·浙江·宁波市国家高新区凌云路1177号凌云产业园4号楼西1-5层 邮编: 315040 t HL (86-574)89070271 t ML (86-574)89070242 e sgs.china@sgs.com

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	NGB17-022315.001	Blue plastic plastic part	PP
SN2	NGB17-022315.002	Box	WHOLE PRODUCT

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(sample 001)

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 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.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>
10% Ethanol (V/V) Aqueous Solution	240.0hr(s)	20°C	10mg/dm ²	<3.0mg/dm ²
3% Acetic Acid (W/V) Aqueous Solution	240.0hr(s)	20°C	10mg/dm ²	<3.0mg/dm ²
95% Ethanol (V/V) Aqueous Solution (Rectified Oliver Oil Substitute)	240.0hr(s)	20°C	10mg/dm ²	<3.0mg/dm ²
Isooctane (Rectified Oliver Oil Substitute)	24.0hr(s)	20°C	10mg/dm ²	<3.0mg/dm ²

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm² .
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² .



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

Colour release(sample 001)

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, to determine colour release.

Test Method : With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.

Test Item(s)	Limit	001
Colour release in 2% acetic acid (W/W) aqueous solution	★	Negative
Colour release in coconut oil	★	Negative

Notes :

- (1) ★ = No colour release.
- (2) Negative = No color release observed, Positive = Color release observed.

Sensorial examination odour and taste test(sample 002)

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, to determine sensorial examination odour and taste.

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

Test Item(s)	Limit	002
Test time(hr)	-	24
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



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Specific migration of heavy metal(sample 001)

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

Test Condition : 70 °C 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/volume	-	dm ² /kg	-	6.0
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(Pb) and cadmium(Cd)(sample 001)

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 lead (Pb) and cadmium (Cd).

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



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Test Item(s)	Limit	Unit	MDL	001
Total Lead	★	mg/kg	2	ND
Total Cadmium	★	mg/kg	2	ND

Notes :

(1) ★= Absent.

Polynuclear aromatic hydrocarbons (PAHs)(sample 001)

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 polynuclear aromatic hydrocarbons(PAHs).

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

Test Item(s)	Limit	Unit	MDL	001
Sum of 18 PAHs	1	mg/kg	-	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	1	mg/kg	-	ND
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
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



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