

Test Report No.: 68.431.22.1220.01

Dated: 2022-01-28



Applicant : The Dream Farm Pty Ltd
9 Amy Street, Albion Qld 4010 Australia

Sample Description : Garject Lite

Product type/ End use : Carlic Press

Style No. / Name / Design No. : DFGAXXXX

Supplier : The Dream Farm Pty Ltd

Manufacturer : Millennium Metal & Plastics / Hui Zi Yi Run Metal

Country of Origin : China

Test Sample Receipt Date, Location : 2022-01-18, Shenzhen

Test Period, Location : From 2022-01-18 to 2022-01-28, Shenzhen

Test Result(s) : Refer to Section 3



Laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd.
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Purpose Of Examination / Conclusion:

Test Requested:	As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the German Food & Feed Acts LFGB (§ 30 & 31) and Regulation (EC) No.1935/2004
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No.	Test Item(s)	Conclusion
1	Overall Migration	Pass
2	Specific Migration of PAA	Pass
3	Specific Migration of PAAs	Pass
4	Specific Migration of Heavy Metals	Pass
5	Specific Migration of Bisphenol A (BPA)	Pass
6	Specific Migration of Hexamethylenediamine (HMDA)	Pass
7	Peroxide	Pass
8	Extractable 23 Heavy Metals Test as specified in EDQM Technical Guide Council of Europe Resolution CM/Res(2013)9	Pass
9	Sensory Test Test for compliance with German Food and Feed Acts LFGB Section 31 and Regulation (EC) No. 1935/2004 Article 3(1)	Pass

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) The test item and samples were specified by the client
- (4) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

Reviewed by:

Handwritten signature of Ken Chen in black ink.

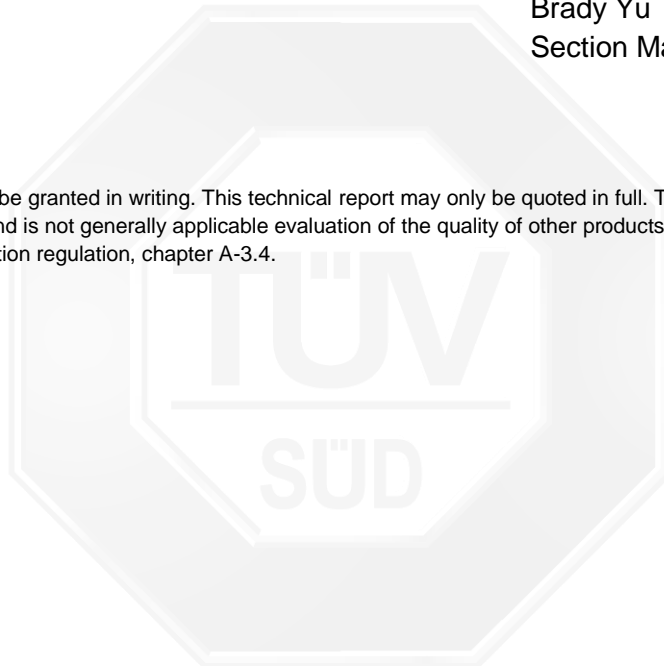


Handwritten signature of Brady Yu in black ink.

Ken Chen
Project Manager

Brady Yu
Section Manager

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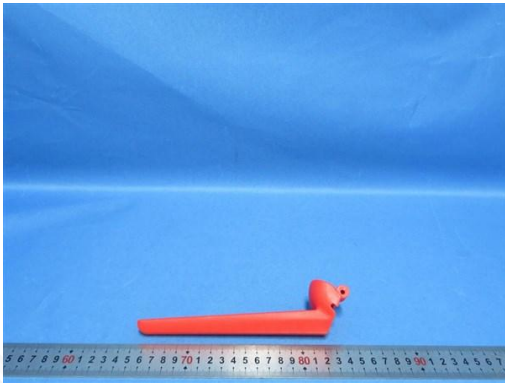
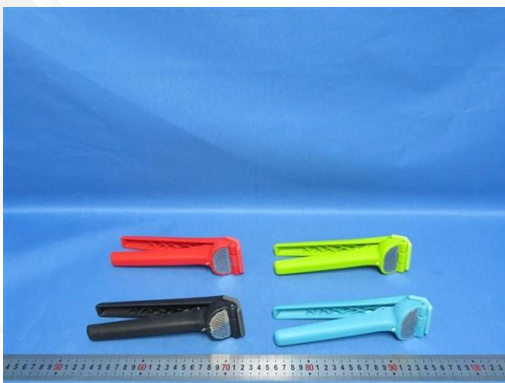
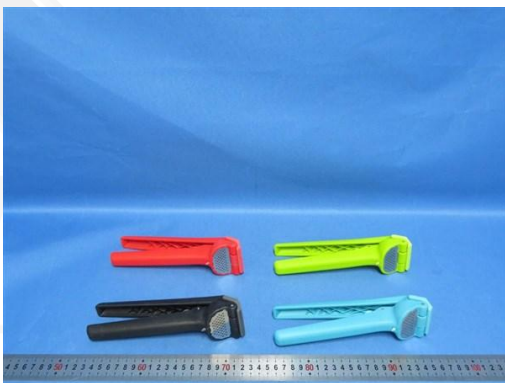
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1. Description of the Test Sample:

Sample Description	Garject Lite
	



2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Red Nylon PA66 (Garlic press)	
T2	002	Silvery stainless steel metal (Garlic press)	
T3	003	Red plastic garlic press (Whole product)	

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3. Test Result

3.1 Overall Migration

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V, test with reference to:
 EN 1186-1:2002(Guide to the selection of conditions and test methods for overall migration)
 EN 1186-3:2002 (Total Immersion method)
 EN 1186-14:2002 (Substitute Test method)
 [Reporting Limit: 3mg/dm²]

TEST ITEM	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
3% Acetic acid	40°C for 0.5 Hour	ND	ND	ND	<10
10% Ethanol	40°C for 0.5 Hour	ND	ND	ND	<10
95% Ethanol	40°C for 0.5 Hour	ND	ND	ND	<10
Isooctane	20°C for 6 Minutes	ND	ND	ND	<10
Conclusion:		Pass*			--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/dm²" denotes milligram per square decimeter

4. "ND" denotes below the Report Limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments

6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

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3.2 Specific Migration of PAA

Test method: with reference to EN 13130-1:2004, follow by Ultraviolet and visible spectrophotometry (UV-Vis).

Test Conditions: 3% Acetic acid: 40 °C for 0.5 Hour

TEST ITEM	RESULT [mg/kg]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration		
Primary Aromatic Amine-Trial 1	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 2	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 3	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

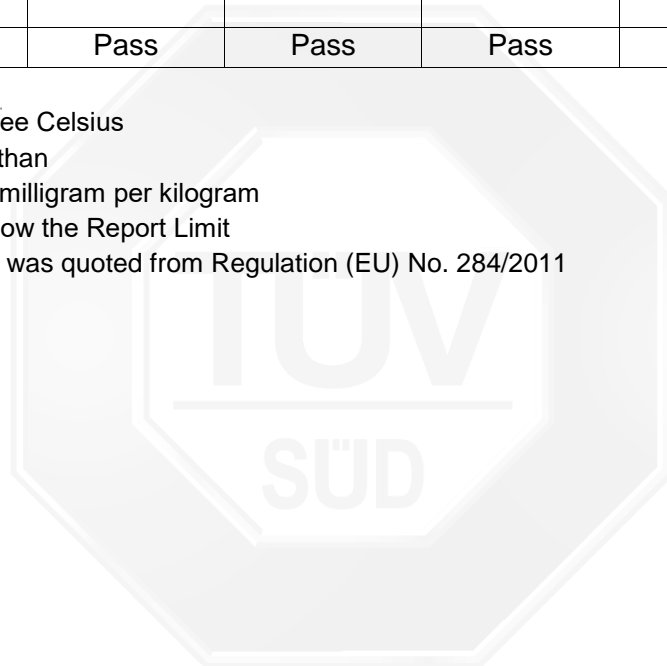
Note 1. "°C" denotes degree Celsius

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3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Report Limit

5. The specification was quoted from Regulation (EU) No. 284/2011



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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: 40 °C for 0.5 Hour

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
4-Aminobiphenyl (4-ABP)-Trial 1	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 2	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 3	ND	ND	ND	<0.002
Aniline (ANL)-Trial 1	ND	ND	ND	<0.002
Aniline (ANL)-Trial 2	ND	ND	ND	<0.002
Aniline (ANL)-Trial 3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 1	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 2	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 3	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 1	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 2	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 3	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 1	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 2	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 3	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 1	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 2	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 3	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 1	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 3	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 2	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 3	ND	ND	ND	<0.002
4,4*-Methylenedianiline (4,4*-MDA)-Trial 1	ND	ND	ND	<0.002
4,4*-Methylenedianiline (4,4*-MDA)-Trial 2	ND	ND	ND	<0.002
4,4*-Methylenedianiline (4,4*-MDA)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 3	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 1	ND	ND	ND	<0.002

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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 2	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 3	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 1	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 2	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 3	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 1	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 3	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 1	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 2	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 3	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 1	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 2	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 3	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 1	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 2	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 3	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 1	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 2	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 3	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 1	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 2	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 3	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 1	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 2	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 3	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 1	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 2	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 1	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 2	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 3	ND	ND	ND	<0.002
2-naphthylamine-Trial 1	ND	ND	ND	<0.002
2-naphthylamine-Trial 2	ND	ND	ND	<0.002
2-naphthylamine-Trial 3	ND	ND	ND	<0.002

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TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
o-aminoazotoluene-Trial 1	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 2	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 3	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 1	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 2	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 3	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 3	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 3	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 1	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 2	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 3	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 1	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 2	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 3	ND	ND	ND	<0.002
4-amino azobenzene-Trial 1	ND	ND	ND	<0.002
4-amino azobenzene-Trial 2	ND	ND	ND	<0.002
4-amino azobenzene-Trial 3	ND	ND	ND	<0.002
Conclusion:	Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

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5. The specification was quoted from Regulation (EU) No. 284/2011

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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: 3% Acetic Acid: 40 °C for 0.5 Hour

TEST ITEM	RESULT [mg/kg foodstuff]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration		
Aluminium (Al)	ND	ND	ND	<0.1	<1
Antimony (Sb)	ND	ND	ND	<0.01	<0.04
Arsenic (As)	ND	ND	ND	<0.01	<0.01
Barium (Ba)	ND	ND	ND	<0.1	<1
Cadmium (Cd)	ND	ND	ND	<0.002	<0.002
Chromium (Cr)	ND	ND	ND	<0.01	<0.01
Cobalt (Co)	ND	ND	ND	<0.05	<0.05
Copper (Cu)	ND	ND	ND	<0.5	<5
Iron (Fe)	ND	ND	ND	<1.0	<48
Lead (Pb)	ND	ND	ND	<0.01	<0.01
Lithium (Li)	ND	ND	ND	<0.1	<0.6
Manganese (Mn)	ND	ND	ND	<0.05	<0.6
Mercury (Hg)	ND	ND	ND	<0.01	<0.01
Nickel (Ni)	ND	ND	ND	<0.01	<0.02
Zinc (Zn)	ND	ND	ND	<1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	<0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

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6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

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3.5 Specific Migration of Bisphenol A (BPA)

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V, and followed by High Performance Liquid Chromatography (HPLC).

Test Conditions: 95% Ethanol: 40 °C for 0.5 Hour

TEST ITEM	RESULT [mg/kg foodstuff]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration		
Bisphenol A	ND	ND	ND	<0.01	0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

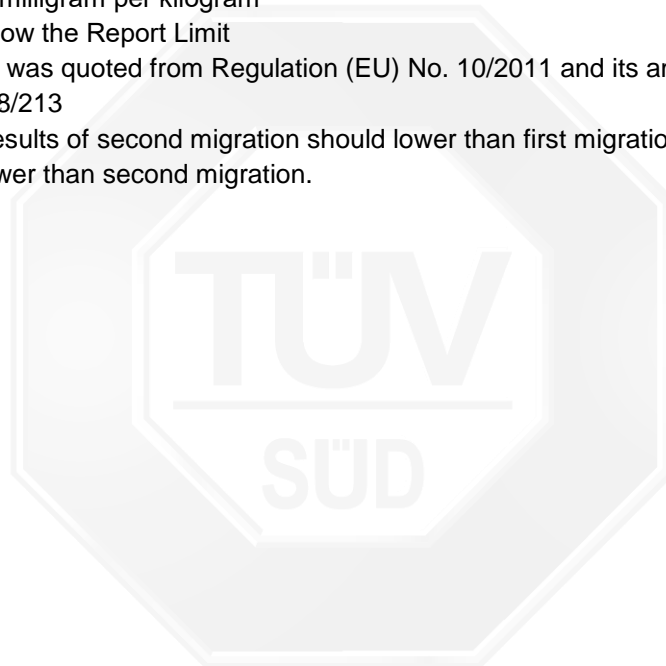
2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Report Limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments Regulation(EU)2018/213

6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.



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3.6 Specific Migration of Hexamethylenediamine (HMDA)

Test method: with reference to EN 13130-1 and CEN/TS 13130-21, follow by Gas Chromatography Mass Spectrometry (GC-MS).

Test Conditions: 3% Acetic Acid: 40 °C for 0.5 Hour

TEST ITEM	RESULT [mg/kg foodstuff]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration		
Hexamethylenediamine	ND	ND	ND	<0.2	2.4
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Report Limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments

6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

3.7 Peroxide

Test method : With reference to 58th Communication on the testing of plastics, Bundesgesundheitsbl. 40 (1997) 412.

TEST ITEM	RESULTS	MAXIMUM PERMISSIBLE LIMIT
	SAMPLE 001	
Peroxide Value	Absent	Absent
Conclusion	Pass	-

Note:

- The specification was quoted from Recommendation of the BfR "Kunststoffe im Lebensmittelverkehr Part XV and Part VI

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3.8 Extractable 23 Heavy Metals

Test as specified in EDQM Technical Guide Council of Europe Resolution CM/Res(2013)9

Sample(s) was tested with below test condition, and followed by ICP-OES and ICP-MS analysis

Test Conditions: 0.5% citric acid: 40 °C for 0.5 Hour

Elements		Result(s) of 1 st + 2 nd Migration [mg/kg foodstuff]	Result(s) of 3 rd Migration [mg/kg foodstuff]	7*Maximum Permissible Limits [mg/kg g foodstuff]	Maximum Permissible Limits [mg/k g foodstuff]
		SAMPLE 002			
1.	Aluminum (Al)	<0.2	<0.1	35	5
2.	Antimony (Sb)	<0.01	<0.005	0.28	0.04
3.	Arsenic (As)	<0.0008	<0.0004	0.014	0.002
4.	Barium(Ba)	<0.2	<0.1	8.4	1.2
5.	Beryllium (Be)	<0.004	<0.002	0.07	0.01
6.	Cadmium (Cd)	<0.0008	<0.0004	0.035	0.005
7.	Chromium (Cr)	<0.10	<0.050	1.75	0.25
8.	Cobalt (Co)	<0.004	<0.002	0.14	0.02
9.	Copper (Cu)	<0.2	<0.1	28	4
10.	Iron (Fe)	<0.2	<0.1	280	40
11.	Lead (Pb)	<0.02	<0.01	0.07	0.01
12.	Lithium (Li)	<0.01	<0.005	0.336	0.048
13.	Magnesium (Mg)	<0.1	<0.05	-	-
14.	Manganese (Mn)	<0.2	<0.1	12.6	1.8
15.	Mercury (Hg)	<0.001	<0.0005	0.021	0.003
16.	Molybdenum (Mo)	<0.004	<0.002	0.84	0.12
17.	Nickel (Ni)	<0.1	<0.05	0.98	0.14
18.	Silver (Ag)	<0.004	<0.002	0.56	0.08
19.	Thallium (Tl)	<0.0002	<0.0001	0.0007	0.0001
20.	Tin (Sn)	<1.0	<0.5	700	100
21.	Titanium (Ti)	<0.1	<0.05	-	-
22.	Vanadium (V)	<0.004	<0.002	0.07	0.01
23.	Zinc (Zn)	<0.2	<0.1	35	5

- Note 1. "°C" denotes degree Celsius
 2. "<" denotes less than
 3. "mg/kg" denotes milligram per kilogram



3.9 Sensory Test

Test for compliance with German Food and Feed Acts LFGB Section 31 and Regulation (EC) No. 1935/2004 Article 3(1)

Test method: With reference to DIN 10955:2004.

The submitted sample was treated with below test conditions. After this treatment, treated food simulant was examined by panels with regard to any divergence in smell and taste.

Test Item	Test Conditions	Grade Results	Recommend Level
		Sample 003	
Transfer of smell	Distilled water: 40°C for 0.5 Hour	1	<2.5
Transfer of taste	Distilled water: 40°C for 0.5 Hour	1	<2.5
Conclusion		Pass	-

Note:

- Explanation for grading are listed as below:
 Grade 0 : No perceptible taste/smell deviation
 Grade 1 : Just perceptible taste/smell deviation
 Grade 2 : Weak taste/smell deviation
 Grade 3 : Clear taste/smell deviation
 Grade 4 : Strong taste/smell deviation

-- END OF TEST REPORT--

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