

**Test Report No.: 68.431.21.05364.01**

**Dated: 2022-04-25**



**Applicant** : The Dream Farm Pty Ltd  
9 Amy Street, Albion QLD Australia

**Sample Description** : Ortwo

**Product type/ End use** : Pepper Grinder

**Style No. / Name / Design No.** : DFORXXXX

**Supplier** : The Dream Farm Pty Ltd

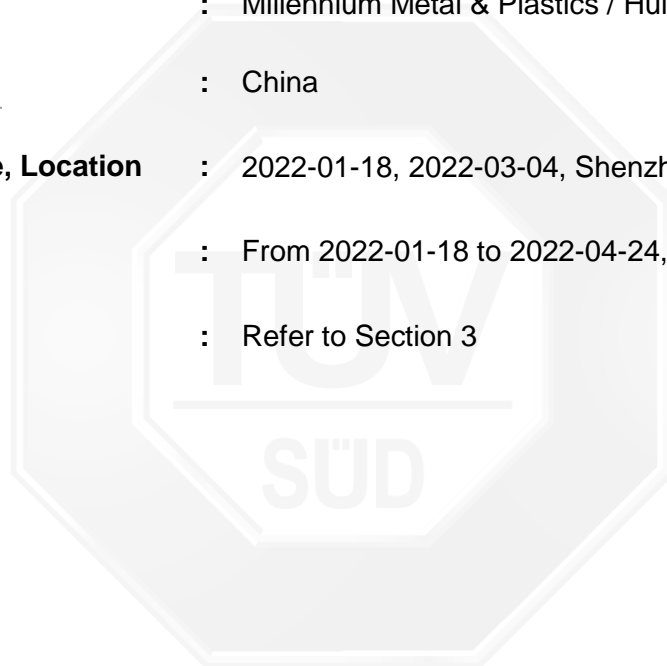
**Manufacturer** : Millennium Metal & Plastics / Hui Zi Yi Run Metal

**Country of Origin** : China

**Test Sample Receipt Date, Location** : 2022-01-18, 2022-03-04, Shenzhen

**Test Period, Location** : From 2022-01-18 to 2022-04-24, Shenzhen

**Test Result(s)** : Refer to Section 3



**Laboratory:**

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**Purpose Of Examination / Conclusion:**

<b>Test Requested:</b>	<b>As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the German Food &amp; Feed Acts LFGB (§ 30 &amp; 31) and Regulation (EC) No.1935/2004</b>
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<b>No.</b>	<b>Test Item(s)</b>	<b>Conclusion</b>
1	<b>Overall Migration</b>	Pass
2	<b>Specific Migration of PAA</b>	Pass
3	<b>Specific Migration of PAAs</b>	Pass
4	<b>Specific Migration of Heavy Metals</b>	Pass
5	<b>Specific Migration of Bisphenol A (BPA)</b>	Pass
6	<b>Specific Migration of Hexamethylenediamine (HMDA)</b>	Pass
7	<b>Peroxide</b>	Pass
8	<b>Leachable of Lead, Cadmium and Cobalt (for interior)</b> Test for compliance with German Commodities Regulation BedGgstV Appendix 6 and LFGB Section 30 & 31	Pass
9	<b>Sensory Test</b> 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 Group

Prepared by:

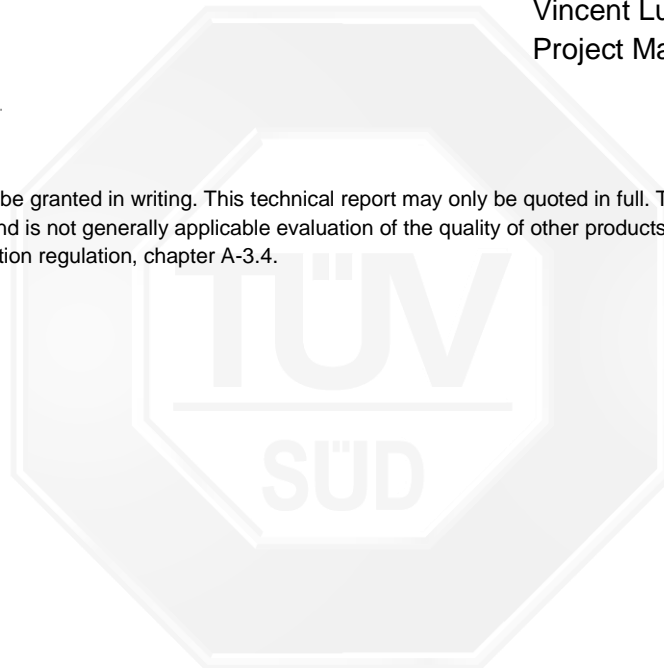
Reviewed by:



Eva Liang  
Project Manager

Vincent Luo  
Project Manager

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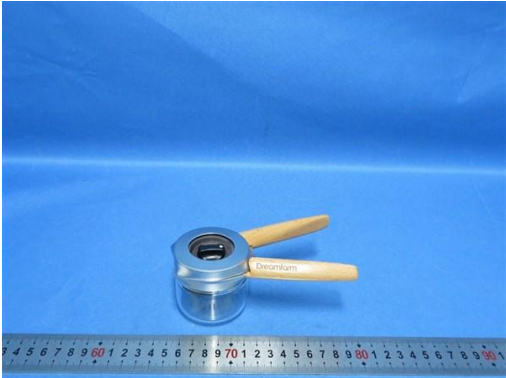
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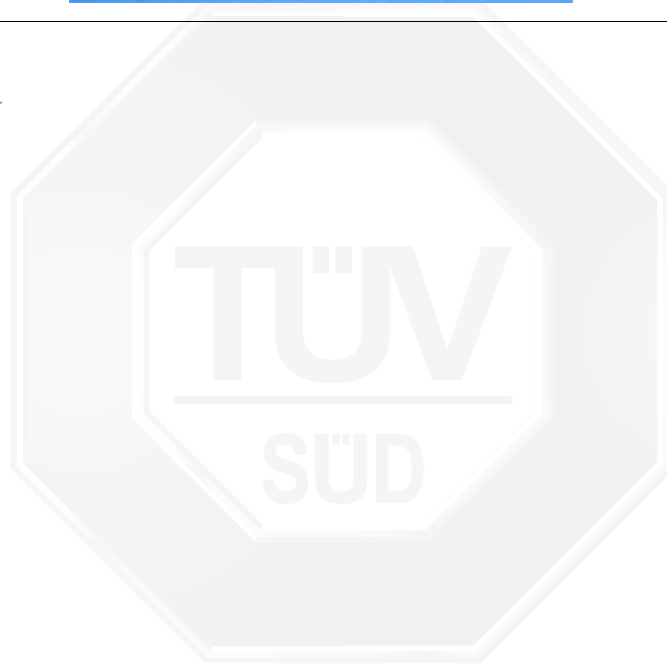
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1. Description of the Test Sample:

Sample Description	Ortwo
	



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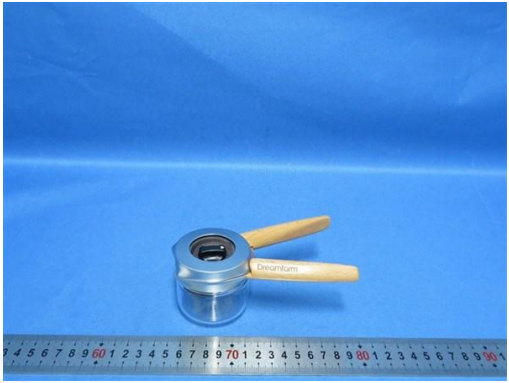
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2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Brown ceramic (Mill)	
T2	002	Clear glass (Case)	
T3	003	Black Nylon PA66 (Mill)	
T4	004	Whole product (Mill)	



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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 1186-2:2002(Oil by Total Immersion method)  
 EN 1186-3:2002 (Total Immersion method)  
 [Reporting Limit: 3mg/dm<sup>2</sup>]

TEST ITEM	TEST CONDITIONS	RESULTS [mg/dm <sup>2</sup> ]			LIMIT [mg/dm <sup>2</sup> ]
		SAMPLE 003 1 <sup>st</sup> Migration	SAMPLE 003 2 <sup>nd</sup> Migration	SAMPLE 003 3 <sup>rd</sup> Migration	
3% Acetic acid	40°C for 10 Days	18.2	ND	ND	<10
10% Ethanol	40°C for 10 Days	13.0	ND	ND	<10
Rectified olive oil	40°C for 10 Days	ND	ND	ND	<10
<b>Conclusion:</b>		Pass*			--

- Note 1. "°C" denotes degree Celsius  
 2. "<" denotes less than  
 3. "mg/dm<sup>2</sup>" 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.



### 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 10 Days

TEST ITEM	RESULT [mg/kg]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 <sup>st</sup> Migration	SAMPLE 003 2 <sup>nd</sup> Migration	SAMPLE 003 3 <sup>rd</sup> 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
<b>Conclusion:</b>	Pass	Pass	Pass	--	--

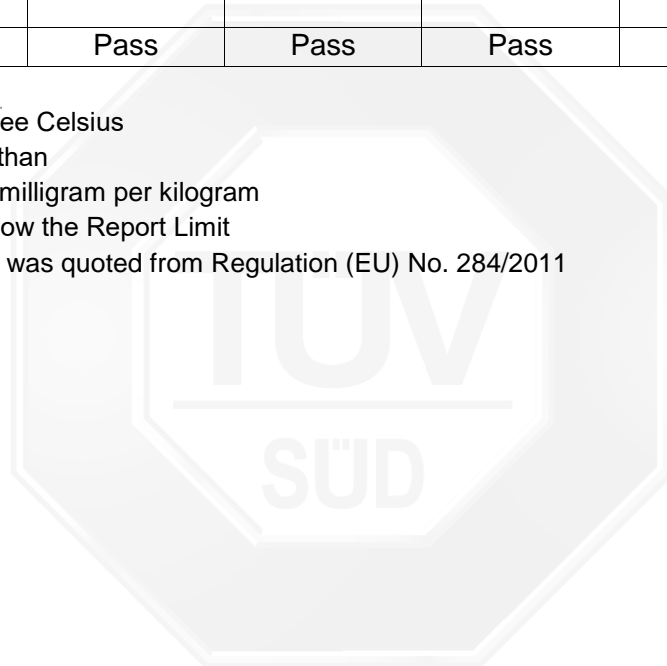
Note 1. "°C" denotes degree Celsius

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. 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 10 Days

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 003 1 <sup>st</sup> Migration	SAMPLE 003 2 <sup>nd</sup> Migration	SAMPLE 003 3 <sup>rd</sup> 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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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
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

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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'-thiodianline-Trial 1	ND	ND	ND	<0.002
4,4'-thiodianline-Trial 2	ND	ND	ND	<0.002
4,4'-thiodianline-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
<b>Conclusion:</b>	Pass	Pass	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. 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 10 Days

TEST ITEM	RESULT [mg/kg foodstuff]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 <sup>st</sup> Migration	SAMPLE 003 2 <sup>nd</sup> Migration	SAMPLE 003 3 <sup>rd</sup> 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
<b>Sum of Eu, Gd, La, Tb</b>	ND	ND	ND	<0.04	<0.05
<b>Conclusion:</b>	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. 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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### 3.5 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 10 Days

TEST ITEM	RESULT [mg/dm <sup>2</sup> ]			REPORT LIMIT [mg/dm <sup>2</sup> ]	LIMIT [mg/dm <sup>2</sup> ]
	SAMPLE 003 1 <sup>st</sup> Migration	SAMPLE 003 2 <sup>nd</sup> Migration	SAMPLE 003 3 <sup>rd</sup> Migration		
Bisphenol A	ND	ND	ND	<0.01	0.04
<b>Conclusion:</b>	Pass*			--	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/dm<sup>2</sup>" 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 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.

### 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 10 Days

TEST ITEM	RESULT [mg/kg foodstuff]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 <sup>st</sup> Migration	SAMPLE 003 2 <sup>nd</sup> Migration	SAMPLE 003 3 <sup>rd</sup> Migration		
Hexamethylenediamine	ND	ND	ND	<0.2	2.4
<b>Conclusion:</b>	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.

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**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 003	
Peroxide Value	Absent	Absent
<b>Conclusion</b>	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 Leachable of Lead, Cadmium and Cobalt (for interior)**

Test for compliance with German Commodities Regulation BedGgstV Appendix 6 and LFGB Section 30 & 31

With reference to DIN EN 1388: Part 1: 1995 and DIN EN 1388: Part 2: 1995.

Test Conditions: 4% acetic acid at 22 ±2 °C for 24 Hours

Test Items	Unit	Results		MAXIMUM PERMISSIBLE LIMIT
		Sample 001	Sample 002	
Leachable Lead (Pb)	mg/L	<0.1	<0.1	4.0
Leachable Cadmium (Cd)	mg/L	<0.05	<0.05	0.3
Leachable Cobalt (Co)	mg/L	<0.05	<0.05	0.1
<b>Conclusion</b>		Pass	Pass	-

Note:

- "mg/dm<sup>2</sup>" denotes milligram per square decimeter
- "mg/L" denotes milligram per Litre
- "<" denotes less than
- The recommended limit of Cobalt was quoted from Germany Bavarian State Ministry of Justice and Consumer Protection
- Specification was quoted from DIN 51032:2017:

	Flat ware*		Hollow ware**	
	Lead mg/dm <sup>2</sup>	Cadmium mg/dm <sup>2</sup>	Lead mg/L	Cadmium mg/L
Tableware and kitchen appliances Ceramics, glass and glass ceramics	0.8	0.07	4.0	0.3
Cooking and baking equipment, packaging containers, ceramic storage containers, glass and glass ceramic	0.4	0.05	1.5	0.1

\* With an internal depth of less than 25 mm.

\*\* those are objects that are not flat objects within the meaning of this standard are. In borderline cases between a flat and a hollow object, it should be classified as a flat object

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**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 004	
Transfer of smell	Distilled water: 40°C for 10 Days	1	<2.5
Transfer of taste	Distilled water: 40°C for 10 Days	1	<2.5
<b>Conclusion</b>		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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