



TEST REPORT

Reference No. : WTF16F0859475C
Applicant :
Address :
Manufacturer :
Address :
Sample Name : Blender
Model No. : ABC-014
Reference Model No. : ABC-017, ABC-029, ABC-014A, ABC-015-1, ABC-015-3, ABC-015-3N, ABC-015-1N, ABC-014A-3, ABC-014B-3, ABC-014C-3, ABC-015A-3, ABC-015-3N(G), ABC-015-3N(B), ABC-015-3N(P), ABC-015-3N(DB), ABC-015, ABC-017-5, ABC-017-3, ABC-017-8
Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB) Section 30 & 31, BfR recommendation and Regulation (EC) No 1935/2004
Test Conclusion : **Pass** (Please refer to next pages for details)
Date of Receipt sample : 2016-08-29
Date of Test : 2016-08-29 to 2016-09-08
Date of Issue : 2016-09-09
Test Result : Please refer to next page (s)

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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**Test Results:****1. Sensorial Examination**

Test Items	Result	Maximum permissible limit
	The submitted sample	
Sensorial examination odour	0	2.5
Sensorial examination taste	0	2.5

Note:

1. Test method: With reference to DIN 10955: 2004.
2. Scale:
0 = no discernible deviation
1 = barely discernible deviation
2 = weak deviation
3 = clear deviation
4 = strong deviation

2. Overall Migration Test

Food Simulant	Test Condition	Result (mg/dm ²)			MDL (mg/dm ²)	Limit (mg/dm ²)
		No.1	No.2	No.3		
3% Acetic Acid	40°C for 2 hours	ND	ND	ND	3	10
50% Ethanol	40°C for 2 hours	ND	ND	ND	3	10

Food Simulant	Test Condition	Result (mg/dm ²)		MDL (mg/dm ²)	Limit (mg/dm ²)
		No.5	No.7		
3% Acetic Acid	40°C for 2 hours	3.3	ND	3	10
50% Ethanol	40°C for 2 hours	ND	ND	3	10

Note:

1. Test method: With reference to EN 1186-1: 2002, EN 1186-3: 2002 and EN 1186-9: 2002.
2. "mg/dm²" = milligram per square decimetre
3. "°C" = Celsius degree
4. MDL= Method Detection Limit
5. ND = Not Detected, less than MDL
6. The specification was quoted from (EU) No 10/2011.

**3. Specific Migration of heavy metal (Barium, Cobalt, Copper, Iron, Lithium, Manganese, Zinc)**

Test Items	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	No.1	No.2	No.3		
Specific migration of Aluminium	ND	ND	ND	0.1	1
Specific migration of Barium	ND	ND	ND	0.1	1
Specific migration of Cobalt	ND	ND	ND	0.01	0.05
Specific migration of Copper	ND	ND	ND	0.1	5
Specific migration of Iron	ND	ND	ND	0.1	48
Specific migration of Lithium	ND	ND	ND	0.01	0.6
Specific migration of Manganese	ND	ND	ND	0.01	0.6
Specific migration of Zinc	ND	ND	ND	0.1	5

Test Items	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	No.5	No.7		
Specific migration of Aluminium	ND	ND	0.1	1
Specific migration of Barium	ND	ND	0.1	1
Specific migration of Cobalt	ND	ND	0.01	0.05
Specific migration of Copper	ND	ND	0.1	5
Specific migration of Iron	0.2	ND	0.1	48
Specific migration of Lithium	ND	ND	0.01	0.6
Specific migration of Manganese	ND	ND	0.01	0.6
Specific migration of Zinc	2.3	ND	0.1	5

Note:

1. Test Method: With reference to EN 13130-1: 2004, sample preparation in 3% acetic acid at 40°C for 2 hours, analysis was performed by ICP-OES.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from (EU) No 10/2011, (EU) 2016/1416.

**4. Specific Migration of Primary Aromatic Amines**

Test Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	No.1	No.2	No.3		
Migration of Primary aromatic amines	ND	ND	ND	0.01	Not Detected (<0.01mg/kg)

Test Item	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	No.5	No.7		
Migration of Primary aromatic amines	ND	ND	0.01	Not Detected (<0.01mg/kg)

Note:

1. Test Method: With reference to § 64 LFGB L No. 00.00-6, analysis was performed by UV-visible Spectrometer.
2. Test Condition and simulant: 3% acetic acid at 40°C for 2 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. MDL= Method Detection Limit
5. ND = Not Detected, less than MDL
6. The specification was quoted from (EU) No 10/2011.

5. Specific Metal Content test (Lead, Zinc, Manganese, Lithium, Cobalt, Titanium, Antimony)

Test Items	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.1		
Lead (Pb)	ND	5	40
Zinc (Zn)	19.2	5	80
Manganese (Mn)	ND	5	140
Lithium (Li)	ND	5	130
Cobalt (Co)	ND	5	125
Titanium (Ti)	ND	5	120
Antimony (Sb)	ND	5	350

Note:

1. Test method: Acid digestion, analysis was performed by ICP-OES.
2. "mg/kg" = milligram per kilogram
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from BfR recommendation XVII.

**6. Peroxide Value Test**

Test Item	Result			Limit
	No.1	No.4	No.5	
Peroxide Value	Absent	Absent	Absent	Absent

Note:

1. Test method: With reference to European Pharmacopeia (2005) ANNEX X F, Clause 2.5.5, method A.
2. The specification was quoted from BfR recommendation XV, XVII, XXII.

7. Specific Migration of Antimony

Test Items	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.1		
Specific migration of Antimony	ND	0.01	0.04

Note:

1. Test Method: With reference to EN 13130-1: 2004, sample preparation in 3% acetic acid at 40°C for 2 hours, analysis was performed by ICP-OES.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from (EU) No 10/2011.

8. Specific Metal Content Test (Chromium, Vanadium, Zirconium, Hafnium)

Test Items	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	No.2	No.3		
Chromium (Cr)	ND	ND	5	10
Vanadium (V)	ND	ND	5	20
Zirconium (Zr)	ND	ND	5	100
Hafnium (Hf)	ND	ND	5	100

Note:

1. Test method: Acid digestion, analysis was performed by ICP-OES.
2. "mg/kg" = milligram per kilogram
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from BfR recommendation VII.

**9. Extractable Components Test**

Food Simulant	Test Condition	Result (%)	MDL (%)	Limit (%)
		No.4		
Distilled Water	Reflux for 5 hours	0.1	0.1	0.5
3% Acetic Acid	Reflux for 5 hours	0.2	0.1	0.5
10% Ethanol	Reflux for 5 hours	ND	0.1	0.5

Note:

1. “%” = percentage by weight
2. MDL= Method Detection Limit
3. ND = Not Detected, less than MDL
4. The specification was quoted from BfR recommendation XV.

10. Volatile Organic Compounds

Test Item	Result (%)		MDL (%)	Limit (%)
	No.4	No.5		
Volatile Organic compounds	0.11	ND	0.05	0.5

Note:

1. Test method: With reference to 61st Communication on testing of plastics in Bundesge sundheitsblatt 46 (2003) 362.
2. “%” = percentage by weight
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from BfR recommendation XV, XXII.

11. Extractable Lead and Cadmium Content

Test Items	Result (mg/L)	MDL (mg/L)	Limit (mg/L)
	No.6		
Extractable Lead	ND	0.1	4.0
Extractable Cadmium	ND	0.01	0.3

Note:

1. Test method: With reference to BS EN 1388-1: 1996 and BS EN 1388-2: 1996, sample preparation in 4% acetic acid at 22±2°C for 24hours, analysis was performed by ICP-OES.
2. “mg/L” = milligram per litre
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from DIN 51032-1986.

**12. Organotin Compounds Content Test**

Test Items	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.4		
Monobutyltin (MBT)	Absent	0.05	Absent
Dibutyltin (DBT)	Absent	0.05	Absent
Tributyltin (TBT)	Absent	0.05	Absent
Tetrabutyltin (TeBT)	Absent	0.05	Absent
Monooctyltin (MOT)	Absent	0.05	Absent
Dioctyltin (DOT)	Absent	0.05	Absent
Triphenyltin (TPHT)	Absent	0.05	Absent

Note:

1. Test method: With reference to DIN EN ISO 17353: 2005, analysis was performed by GC-MS.
2. "mg/kg" = milligram per kilogram
3. MDL= Method Detection Limit

13. Specific Metal Content Test (Zinc)

Test Item	Result (%)	MDL (%)	Limit (%)
	No.7		
Zinc (Zn)	ND	0.01	1.0

Note:

1. Test method: Acid digestion, analysis was performed by ICP-OES.
2. "%" = percentage by weight
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from BfR recommendation XXXIII.

14. Specific Migration of Formaldehyde

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.7		
Migration of Formaldehyde	ND	1.0	15

Note:

1. Test Method: With reference to EN 13130-1: 2004, sample preparation in 3% acetic acid at 40°C for 2 hours, analysis was performed by UV-visible Spectrometer.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from (EU) No 10/2011.

**15. Council of Europe Resolution CM/Res(2013)9-Specific Migration of Heavy Metal**

Test Items	1st+2nd Migration (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.8		
Aluminium (Al)	ND	0.2	35
Antimony (Sb)	ND	0.02	0.28
Chromium (Cr)	0.04	0.04	1.75
Cobalt (Co)	ND	0.02	0.14
Copper (Cu)	ND	0.2	28
Iron (Fe)	0.5	0.4	280
Manganese (Mn)	0.3	0.2	12.6
Molybdenum (Mo)	ND	0.02	0.84
Nickel (Ni)	0.02	0.02	0.98
Silver (Ag)	ND	0.02	0.56
Tin (Sn)	ND	0.2	700
Vanadium (V)	ND	0.01	0.07
Zinc (Zn)	ND	0.2	35
Arsenic (As)	ND	0.002	0.014
Barium (Ba)	ND	0.2	8.4
Beryllium (Be)	ND	0.01	0.07
Cadmium (Cd)	ND	0.002	0.035
Lead (Pb)	ND	0.01	0.07
Lithium (Li)	ND	0.01	0.336
Mercury (Hg)	ND	0.002	0.021
Thallium (Tl)	ND	0.0002	0.0007
Magnesium (Mg)	ND	0.2	--
Titanium (Ti)	ND	0.02	--



Test Items	3rd Migration (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	No.8		
Aluminium (Al)	ND	0.1	5
Antimony (Sb)	ND	0.01	0.04
Chromium (Cr)	ND	0.02	0.25
Cobalt (Co)	ND	0.01	0.02
Copper (Cu)	ND	0.1	4
Iron (Fe)	ND	0.2	40
Manganese (Mn)	ND	0.1	1.8
Molybdenum (Mo)	ND	0.01	0.12
Nickel (Ni)	ND	0.01	0.14
Silver (Ag)	ND	0.01	0.08
Tin (Sn)	ND	0.1	100
Vanadium (V)	ND	0.005	0.01
Zinc (Zn)	ND	0.1	5
Arsenic (As)	ND	0.001	0.002
Barium (Ba)	ND	0.1	1.2
Beryllium (Be)	ND	0.005	0.01
Cadmium (Cd)	ND	0.001	0.005
Lead (Pb)	ND	0.005	0.01
Lithium (Li)	ND	0.005	0.048
Mercury (Hg)	ND	0.001	0.003
Thallium (Tl)	ND	0.0001	0.0001
Magnesium (Mg)	ND	0.1	--
Titanium (Ti)	ND	0.01	--

Note:

1. Test Method: With reference to EN 13130-1: 2004, analysis was performed by ICP-OES and ICP-MS.
2. Test Condition and simulant: Sample(s) were migrated with 5g/L citric acid at 40°C for 2 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. MDL = Method Detection Limit
5. ND = Not Detected, less than MDL
6. "--" = Not regulated
7. The specification was quoted from Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9.



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Sample Photo:



WALTEK



Photograph of parts tested:

No.	Photo of testing part	Parts Description	Client Claimed Material
1		Transparent plastic	PCTG
2		Black plastic	PP
3		Translucent plastic	PP
4		Translucent silicone rubber	Silicone rubber



No.	Photo of testing part	Parts Description	Client Claimed Material
5		Translucent coating	Acrylic resin
6		Transparent glass	Glass
7		Black plastic	POM
8		Silvery metal	Stainless steel 304

===== End of Report =====