



Product Service

Technical Report No. 68.163.10.00057.01
Dated 2010-03-12

Applicant: Yingda Electric Co., Ltd

Address: Hongjian Industrial District Guangming North Road, Nantou Zhongshan, Guangdong 528400 P.R.China

Attn.: /

Product Description: Coffee Maker

Model No.: Refer to **REMARK**

Sample Received Date: 2010-01-20

Test Period: From 2010-01-20 to 2010-03-12

Location of Testing: LCTECH (Zhongshan) Testing service Co., Ltd

Objectives of Examination:

1. For material: Plastics / Rubber / Silicone / Organic coating
 - Overall migration test for compliance with Directive 2002/72/EC & it's amendment 2007/19/EC for plastic materials and article intended to come into contact with foodstuffs.
2. For material: Rubber / Silicone
 - Peroxide value
3. For material: Rubber / Silicone
 - Volatile Organic Matters
4. For material: Silicone
 - Specific Migration of Organotin
5. For material: Glass and ceramics surface
 - Leachable Lead and Cadmium content
6. For material: Aluminium and aluminium alloys
 - Composition analysis for compliance with EN 601 / EN 602
7. For material: Stainless steel
 - Composition analysis for compliance with French Arrêté du 13 Janvier 1976

Test Method: Refer to following page(s)

Conclusion: The tested sample were found to **comply** with the respective requirement(s) for the tested item(s) as stated in the French Decrét 2007-766, French information note DGCCRF 2004-64 and Regulation (EC) No.1935/2004 (Material in contact with food regulation).

No extract, abridgment or abstraction from a test report may be published or used to advertise a product without the written consent of the Director of TÜV Product Service Ltd. The results contained herein apply only to the particular sample tested and to the specific test carried out and not to samples of the current production line.

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1. PHOTO OF SUBMITTED PRODUCT



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2. TESTED SUBJECT DESCRIPTION

SAMPLE NO. *	PART NAME	TESTED MATERIAL DESCRIPTION	PHOTO
001	Tank (6)	White plastic (PP)	
002	Immobility ring	Transparent silica gel	
003	spring	Silvery metal (SUS)	
004	Vacuum cup cover (41)	Grey plastic (PP)	
005	Heating element (14)	Silvery metal (Aluminum alloy)	

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SAMPLE NO. *	PART NAME	TESTED MATERIAL DESCRIPTION	PHOTO
006	Inner funnel netting (27)	White plastic (PA)	
007	Vacuum flask (56)	glass	
008	PP tube (4)	Translucence plastic (PP)	
009	Corpus (3)	Black plastic (PP)	
010	Valve corpus (19)	Black plastic (PA)	

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SAMPLE NO. *	PART NAME	TESTED MATERIAL DESCRIPTION	PHOTO
011	Water rule (24)	Transparent plastic (PC)	
012	Ceramic cup	White ceramic	

“*” Sample 002 was claimed by the client as identically same as sample 003 of Report 68.163.10.00059.01 issued on 2010-03-12. The test data was quoted from the latter one.
 Sample 003 was claimed by the client as identically same as sample 002 of Report 68.163.10.00059.01 issued on 2010-03-12. The test data was quoted from the latter one.
 Sample 011 was claimed by the client as identically same as sample 004 of Report 68.163.10.00059.01 issued on 2010-03-12. The test data was quoted from the latter one.

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3. TEST RESULTS

3.1. OVERALL MIGRATION TEST

Test method :As specified in 82/711/EEC, 85/572/EEC, and 97/48/EC Directives; with reference to EN 1186:part 1 & part 3 :2002.

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/dm ²]			MAXIMUM PERMISSIBLE LIMIT [mg/dm ²]
		SAMPLE 001	SAMPLE 002	SAMPLE 004	
Distilled water	100°C for 0.5 hours	< 3.0	< 3.0	< 3.0	10

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/dm ²]			MAXIMUM PERMISSIBLE LIMIT [mg/dm ²]
		SAMPLE 006	SAMPLE 008	SAMPLE 009	
Distilled water	100°C for 0.5 hours	< 3.0	< 3.0	< 3.0	10

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/dm ²]			MAXIMUM PERMISSIBLE LIMIT [mg/dm ²]
		SAMPLE 010	SAMPLE 011	---	
Distilled water	100°C for 0.5 hours	< 3.0	< 3.0	---	10

Note :

- “°C” denotes degree Celsius
- “mg/dm²” denotes milligram per square decimeter
- “<” denotes less than
- The specification was quoted from Directive 2002/72/EC

3.2. PEROXIDE VALUE TEST

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

TEST ITEM	RESULTS	MAXIMUM PERMISSIBLE LIMIT
	SAMPLE 002	
PEROXIDE VALUE	Absent	Absent

Note:

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

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3.3. VOLATILE ORGANIC MATTER TEST

Test Method: With reference to Bundesgesundheitsbl. 16 (1973) 332. The samples were tested at 105 °C for 0.5 hours

TEST ITEM	RESULTS [%]	MAXIMUM PERMISSIBLE LIMIT [%]
	SAMPLE 002	
VOLATILE ORGANIC MATTER	0.05	0.5

Note:

- “%” denotes percentage by weight

3.4. SPECIFIC MIGRATION OF ORGANOTIN

Test method: The sample was filled with distilled water at 100°C for 0.5 hours. The heavy metal content of extracting solution was then analyzed using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

TEST ITEMS	RESULTS [mg/kg]	GENERALLY ACCEPTED LIMIT [mg/kg]
	SAMPLE 002	
Specific Migration of Organotin	< 0.1	0.1

Note :

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram
- “<” denotes less than.

3.5. LEACHABLE LEAD AND CADMIUM CONTENT TEST

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

TEST ITEM	RESULT [mg/L]			MAXIMUM PERMISSIBLE LIMIT [mg/L]
	SAMPLE 007	SAMPLE 012	---	
Leachable Lead	< 0.10	< 0.10	---	4.0
Leachable Cadmium	< 0.01	< 0.01	---	0.3

Note :

- “mg/L” denotes milligram per Litre
- “<” denotes less than
- The specification was quoted from directive 84/500/EEC for article as hollowware (category 2).

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3.6. COMPOSITION ANALYSIS FOR ALUMINUM

Test method : Acid digestion, followed by analysis using Atomic Absorption Spectrometry (AAS) and Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

TEST ITEM	RESULT [%]	MAXIMUM PERMISSIBLE LIMIT [%]
	SAMPLE 005	
Silicon content (Si)	0.405	13.5
Magnesium content (Mg)	0.552	11
Manganese content(Mn)	0.0040	4
Nickel content (Ni)	0.0010	3
Iron content (Fe)	0.126	2
Copper content (Cu)	0.0030	0.6
Antimony content (Sb)	< 0.0001	0.2
Chromium content (Cr)	0.0003	0.35
Titanium content (Ti)	0.0117	0.3
Zirconium content (Zr)	0.0005	0.3
Zinc content (Zn)	0.0174	0.2
Strontium content (Sr)	< 0.0001	0.1
Tin content (Sn)	< 0.0001	0.05
Arsenic content (As)	< 0.0001	0.05
Tantalum content (Ta)	< 0.0001	0.05
Beryllium content (Be)	< 0.0001	0.05
Thallium content (Tl)	< 0.0001	0.05
Lead content (Pb)	< 0.0001	0.05
Aluminum content (Al)	98.8	-

Note :

- “%” denotes percentage by weight
- “<” denotes less than
- The specification was quoted from EN 601 / EN 602.

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3.7. STAINLESS STEEL COMPOSITION TEST

Test method: Acid digestion, followed by analysis with Inductively Coupled Plasma Spectrometry (ICP).

TEST ITEM	RESULTS [%]	MAXIMUM PERMISSIBLE LIMIT [%]
	SAMPLE 003	
Chromium content (Cr)	14.53	>13
Tantalum content (Ta)	< 0.0001	< 1
Niobium content (Nb)	< 0.0001	< 1
Zirconium (Zr)	< 0.0001	< 1
Molubdenum content (Mo)	< 0.0001	< 4
Titanium content (Ti)	< 0.0001	< 4
Aluminium content (Al)	0.0029	< 4
Copper content (Cu)	1.277	< 4

Note :

- “%” denotes percentage by weight.
- “<” denotes less than.
- “>” denotes greater than.
- The specification was quoted from French Arrêté du 13 Janvier 1976.

Remark:

The follow Model No. was supplied by applicant:

CM-401, CM-402, CM-403, CM-404, CM-406, CM-408, YD-CM-411, CM-601, CM-602, CM-607, CM-52, YD-CM-625, YD-CM-608, YD-CM-608S, YD-CM-609, YD-CM-609S, YD-CM-610, YD-CM-619, YD-CM-629, YD-CM-629-9, YD-CM-628, YD-CM-623, YD-CM-633(CM2221), YD-CM-641, YD-TCM-01, YD-TCM-02, YD-TCM-03, YD-TCM-08, YD-TCM-23, YD-CM-6018, YD-CM-6038, YD-CM-612

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