

Test Report

No. CANEC1822968406

Date: 01 Mar 2019

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FOSHAN SHUNDE SHINECHEF ELECTRIC APPLIANCE CO.,LTD.

NO. 3 JINAN ROAD, CHANGXING INDUSTRIAL ZONE, JUN AN TOWN, FOSHAN, GUANGDONG
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Stand Mixer

SGS Job No. : CP18-059964 - GZ
Model No. : SC-262C
Client Ref. Info. : SEE REMARK
Date of Final Sample Received : 29 Nov 2018
Date of Sample Received : 06 Nov 2018
Testing Period : 06 Nov 2018 - 27 Feb 2019
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).



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Result Summary :

Test Requested	Conclusion
French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments – Overall migration	PASS
French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments– Overall migration	PASS
French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments–Peroxide value	PASS
French Décret 2007-766 and DGCCRF Methodological Sheet "File inorganic materials"-Leachable Lead and Cadmium	PASS
French Décret 2007-766 and DGCCRF Methodological Sheet "File inorganic materials"-Leachable Aluminium, Arsenic and Cobalt	PASS
French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments–Specific Migration of Acrylonitrile	PASS
French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments–Specific Migration of Phthalates	PASS
French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments–Specific Migration of Primary Aromatic Amine	PASS
French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Specific migration of Formaldehyde	PASS
French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments–Specific Migration of Organotin (as Tin)	PASS
French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments –Specific Migration of Heavy Metal	PASS
French Décret 2007-766 with amendments and DGCCRF Methodological Sheet "File metals and alloys" version 2-Composition analysis	PASS
French Décret 2007-766 with amendments and DGCCRF Methodological Sheet "File metals and alloys" version 2-Composition analysis	PASS



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French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments –Volatile organic matter (VOM)	PASS
French Décret 2007-766 with amendments and French Law 2012-1442 of 24 Dec 2012-Total Content of Bisphenol A	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Ivy Ren

Ivy Ren
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center Chemical Laboratory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN18-229684.001	Silvery metal bowl	Stainless steel
SN2	CAN18-229684.002	Silvery metal	Aluminum alloy
SN3	CAN18-229684.003	Black plastic(3#)	PP
SN4	CAN18-229684.004	White plastic(4#)	PP
SN5	CAN18-229684.005	White plastic(5#)	POM
SN6	CAN18-229684.006	Transparent plastic lid	AS
SN7	CAN18-229684.009	Glass jar	Glass
SN8	CAN18-229684.011	Black plastic(11#)	POM
SN9	CAN18-229684.015	Translucent silicone rubber ring	Silicone rubber

French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments – 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;
or EN 1186-3:2002 aqueous food simulants by total immersion method;
or EN 1186-14:2002 substitute test

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003 Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
95% Ethanol	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
Isooctane	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 004 Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
95% Ethanol	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS



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Isooctane	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS
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<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 005 Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
95% Ethanol	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
Isooctane	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 006 Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
95% Ethanol	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
Isooctane	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 011 Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
95% Ethanol	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
Isooctane	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

1. mg/dm² = milligram per square decimeter
mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
4. Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg
5. The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.
6. Result(s) of sample 006 was/were calculated based on the total contact surface of the sealing article and sealed container provided by client.



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French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments– 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;
or EN 1186-3:2002 aqueous food simulants by total immersion method;
or EN 1186-2:2002 olive oil by total immersion method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 015 Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
Rectified Olive Oil	2.0hr(s)	70°C	10mg/dm ²	6.6mg/dm ²	PASS

Notes :

1. mg/dm² = milligram per square decimeter
mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
4. Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg
5. The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.

French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments–Peroxide value

Test Method : With reference to European Pharmacopoeia(2005).

<u>Test Item(s)</u>	<u>Limit</u>	<u>015</u>
Peroxide Value	Absent	Absent
Comment		PASS

French Décret 2007-766 and DGCCRF Methodological Sheet "File inorganic materials"-Leachable Lead and Cadmium

Test Method : Category 1, 2 and 3 – With reference to European Directive 84/500/EEC and its amendment 2005/31/EC.
Oral Contact – With reference to EN 1388-2:1995.
Analysis was performed by ICP-OES.

Sample 009 Category 1



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	<u>Vol. of 4%HAc</u> <u>used (mL)</u>	<u>Surface Area</u> <u>(dm²)</u>
1	5514	33.02
	<u>Leachable Lead</u> <u>(mg/dm²)</u>	<u>Leachable Cad-</u> <u>mium (mg/dm²)</u>
1	<0.1	<0.01
Limit	0.8	0.07

Notes :

1. Category 1 – Articles which cannot be filled and articles which can be filled, the internal depth of which does not exceed 25 mm.
2. Category 2 – Articles, not in categories 1 or 3, which can be filled.
3. Category 3 – Cooking ware; packaging and storage vessels having a capacity of more than three litres.
4. Oral Contact – Lip and rim area for drinking utensils, relating to objects decorated externally over a width of 20mm measured from the external edge.

French Décret 2007-766 and DGCCRF Methodological Sheet "File inorganic materials"-Leachable Aluminium, Arsenic and Cobalt

Test Method : With reference to EN 1388-1: 1995, analysis was performed by ICP-MS.

Sample 009

	<u>Vol. of 4%HAc</u> <u>used (mL)</u>		
1	5514		
	<u>Leachable</u> <u>Aluminum (mg/kg)</u>	<u>Leachable</u> <u>Cobalt (mg/kg)</u>	<u>Leachable</u> <u>Arsenic (mg/kg)</u>
1	<0.1	<0.01	<0.002
Limit	1	0.02	0.002

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. The test data is based on third migration result.

French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Specific Migration of Acrylonitrile



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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 EN13130-1:2004 for selection of test method, analysis was performed by SPME-GC-MS.

Sample 006

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70 °C 0.5 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm ² /kg	-	2.5
Specific Migration of Acrylonitrile	0.01	mg/kg	0.01	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Specific Migration of Phthalates

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 EN13130-1:2004 for selection of test method, analysis was performed by GC-MS.

Sample 003

Simulant Used : Isooctane

Test Condition : 40 °C 0.5 hr(s)

Test Item(s)	CAS NO.	Max. Permissible Limit	Unit	MDL	Test result
Migration times		-	-	-	1st
Area/Volume		-	dm ² /kg	-	6.0
Dibutyl Phthalate(DBP)	84-74-2	0.3	mg/kg	0.05	ND
Benzylbutyl Phthalate(BBP)	85-68-7	30	mg/kg	0.05	ND
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND



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Sum (DINP+DIDP)	-	9	mg/kg	0.20	ND
Diallyl Phthalate(DAP)	131-17-9	0.01	mg/kg	0.01	ND
Comment	PASS				

Sample 004

Simulant Used : Isooctane

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times		-	-	-	1st
Area/Volume		-	dm ² /kg	-	6.0
Dibutyl Phthalate(DBP)	84-74-2	0.3	mg/kg	0.05	ND
Benzylbutyl Phthalate(BBP)	85-68-7	30	mg/kg	0.05	ND
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND
Sum (DINP+DIDP)	-	9	mg/kg	0.20	ND
Diallyl Phthalate(DAP)	131-17-9	0.01	mg/kg	0.01	ND
Comment	PASS				

Sample 005

Simulant Used : Isooctane

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times		-	-	-	1st
Area/Volume		-	dm ² /kg	-	6.0
Dibutyl Phthalate(DBP)	84-74-2	0.3	mg/kg	0.05	ND
Benzylbutyl Phthalate(BBP)	85-68-7	30	mg/kg	0.05	ND
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	0.07
Sum (DINP+DIDP)	-	9	mg/kg	0.20	ND
Diallyl Phthalate(DAP)	131-17-9	0.01	mg/kg	0.01	ND
Comment	PASS				

Sample 006

Simulant Used : Isooctane

Test Condition : 40 °C 0.5 hr(s)



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times		-	-	-	1st
Area/Volume		-	dm ² /kg	-	2.5
Dibutyl Phthalate(DBP)	84-74-2	0.3	mg/kg	0.05	ND
Benzylbutyl Phthalate(BBP)	85-68-7	30	mg/kg	0.05	ND
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND
Sum (DINP+DIDP)	-	9	mg/kg	0.20	ND
Diallyl Phthalate(DAP)	131-17-9	0.01	mg/kg	0.01	ND
Comment					PASS

Sample 011

Simulant Used : Isooctane

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times		-	-	-	1st
Area/Volume		-	dm ² /kg	-	6.0
Dibutyl Phthalate(DBP)	84-74-2	0.3	mg/kg	0.05	ND
Benzylbutyl Phthalate(BBP)	85-68-7	30	mg/kg	0.05	ND
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND
Sum (DINP+DIDP)	-	9	mg/kg	0.20	ND
Diallyl Phthalate(DAP)	131-17-9	0.01	mg/kg	0.01	ND
Comment					PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Specific Migration of Primary Aromatic Amine

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 13130-1:2004 for selection of test method and BfR Recommendation XXI. Analysis was performed by UV-Vis.

Sample 003



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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm ² /kg	-	6.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Comment				PASS

Sample 004

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm ² /kg	-	6.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Comment				PASS

Sample 005

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm ² /kg	-	6.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND
Comment				PASS

Sample 006

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st



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Area/Volume	-	dm ² /kg	-	2.5
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND
Comment				PASS

Sample 011

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm ² /kg	-	6.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

French Décret 2007-766 with amendments, DGCCRF Methodological Sheet "File organic materials – synthetic matter" and European Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Specific migration of Formaldehyde

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 13130-1:2004 for selection of test method, analysis was performed by UV-Vis.

Sample 005

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	6.0
Specific migration of Formaldehyde	15	mg/kg	0.1	ND
Comment				PASS



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Sample 011

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	6.0
Specific migration of Formaldehyde	15	mg/kg	0.1	0.6
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments—Specific Migration of Organotin (as Tin)

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 EN13130-1:2004 for selection of test methods; analysis was performed by ICP-OES.

Sample 015

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	6.0
Specific Migration of Organotin (as Tin)	0.1	mg/kg	0.01	0.06
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)



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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 EN13130-1:2004 for selection of test method, analysis was performed by ICP-OES.

Sample 003

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
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	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment				PASS

Sample 004

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
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



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Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment	PASS			

Sample 005

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
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	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment	PASS			

Sample 006

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	2.5
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



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Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment	PASS			

Sample 011

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

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
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	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment	PASS			

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)
- 5.The limits of nickel according to Commission Regulation (EU) 2017/752 shall be applied from 19 May 2019.

French Décret 2007-766 with amendments and DGCCRF Methodological Sheet "File metals and alloys" version 2-Composition analysis

Test Method : With reference to SGS In-house method (GZTC CHEM-TOP-044-28 or GZTC CHEM-TOP-175-01), analysis was performed by ICP-OES or titration method.



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Test Item(s)	Limit	Unit	MDL	001
Chromium (Cr)	≥13	%(w/w)	0.01	18.79
Copper (Cu)	4	%(w/w)	0.01	0.07
Aluminum (Al)	4	%(w/w)	0.01	ND
Molybdenum (Mo)	4	%(w/w)	0.01	0.01
Niobium (Nb)	1	%(w/w)	0.01	ND
Tantalum (Ta)	1	%(w/w)	0.01	ND
Titanium (Ti)	4	%(w/w)	0.01	ND
Zirconium (Zr)	1	%(w/w)	0.01	ND
Comment	PASS			

Notes :

- 1.% w/w = percentage of weight by weight
- 2.MDL=Method Detection Limit
3. ND = Not Detected(less than MDL)

French Décret 2007-766 with amendments and DGCCRF Methodological Sheet "File metals and alloys" version 2-Composition analysis

Test Method : With reference to SGS In-house method (GZTC CHEM-TOP-121-01) and (GZTC CHEM-TOP-010-07), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	002
Silicon (Si)	13.5	%(w/w)	0.01	11.36
Arsenic (As)	0.05	%(w/w)	0.01	ND
Chromium (Cr)	0.35	%(w/w)	0.01	0.01
Copper (Cu)	0.60	%(w/w)	0.01	0.06
Iron (Fe)	2	%(w/w)	0.01	0.73
Magnesium (Mg)	11	%(w/w)	0.01	0.07
Manganese (Mn)	4	%(w/w)	0.01	0.07
Nickel (Ni)	3	%(w/w)	0.01	ND
Lead (Pb)	0.05	%(w/w)	0.01	ND
Antimony (Sb)	0.4	%(w/w)	0.01	ND
Strontium (Sr)	0.2	%(w/w)	0.01	ND
Thallium (Tl)	0.05	%(w/w)	0.01	ND
Zinc (Zn)	0.25	%(w/w)	0.01	0.07
Beryllium (Be)	0.05	%(w/w)	0.01	ND
Tin (Sn)	0.10	%(w/w)	0.01	ND
Tantalum (Ta)	0.05	%(w/w)	0.01	ND
Titanium (Ti)	0.3	%(w/w)	0.01	0.02



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Test Item(s)	Limit	Unit	MDL	002
Zirconium (Zr)	0.3	%(w/w)	0.01	ND
Comment				PASS

Notes :

1. % w/w = percentage of weight by weight
2. The permissible limit of sum of Arsenic, Tantalum, Beryllium, Thallium and Lead is 0.15%.
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)

French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments –Volatile organic matter (VOM)

Test Method : With reference to French Arrêté du Novembre 1992 Annex III.

Test Item(s)	Limit	Unit	MDL	015
Temperature	-	°C	-	200
Time	-	hr(s)	-	4
Volatile organic matter (VOM)	0.5	%(w/w)	0.10	0.12
Comment				PASS

Notes :

1. %w/w = percentage of weight by weight
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)

French Décret 2007-766 with amendments and French Law 2012-1442 of 24 Dec 2012-Total Content of Bisphenol A

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-MS

Test Item(s)	Limit	Unit	MDL	003
Total content of Bisphenol A	0.1	mg/kg	0.1	ND
Comment				PASS

Test Item(s)	Limit	Unit	MDL	004
Total content of Bisphenol A	0.1	mg/kg	0.1	ND
Comment				PASS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Total content of Bisphenol A	0.1	mg/kg	0.1	ND
Comment				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Total content of Bisphenol A	0.1	mg/kg	0.1	ND
Comment				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>
Total content of Bisphenol A	0.1	mg/kg	0.1	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)

Remark: WARNING = Over threshold of the presence of Bisphenol A (BPA). Only the intentional addition of BPA in the material constitutes a non-compliance under the French Law 2012-1442.



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REMARK :

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Sample photo:



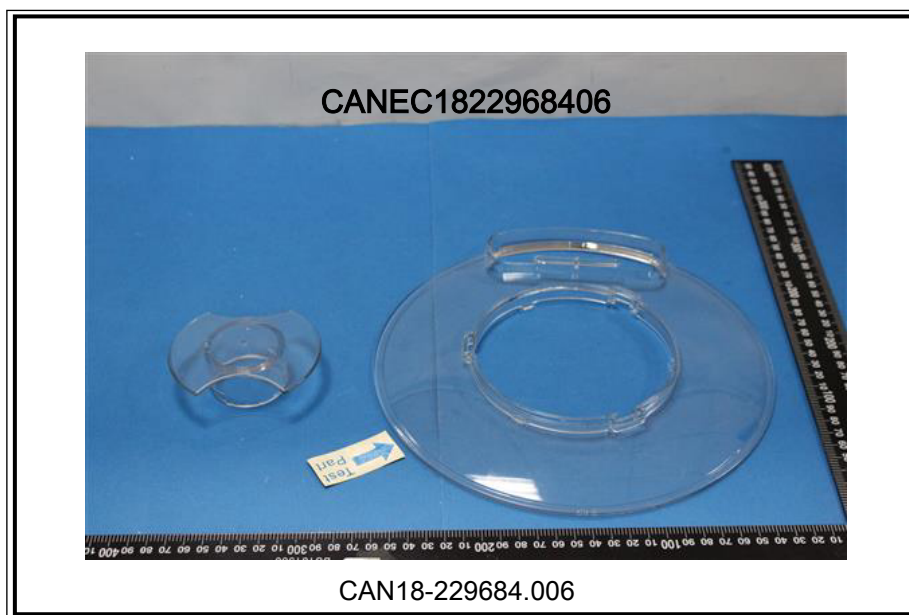
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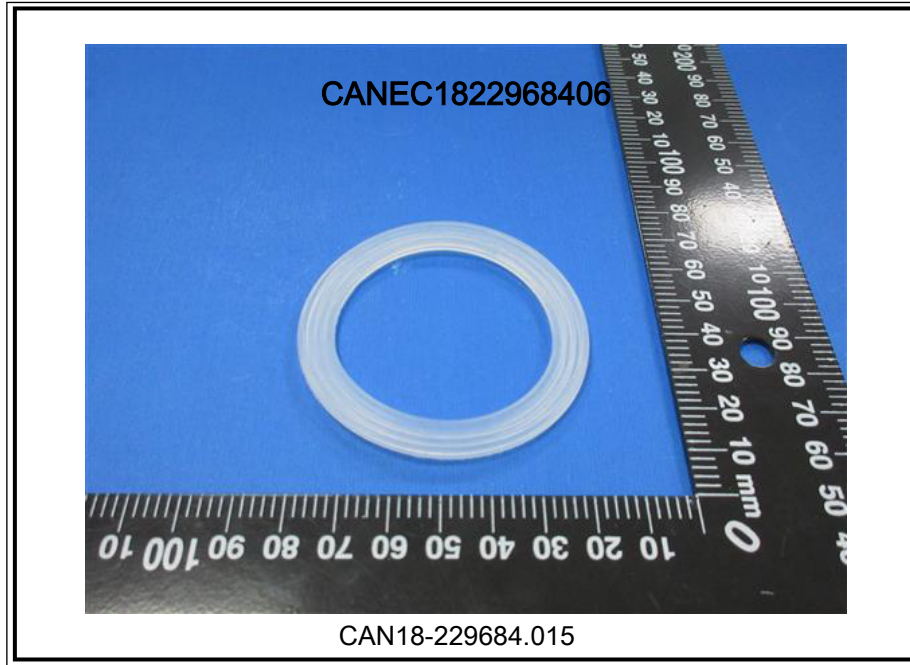
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