



Job No./Report No TR1078195

Date:22 March 2017

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NSC BOYA KIMYEVI MAD. SAN VE TIC. A.Ş

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TEL: 02163115630 FAX: 02165615640

To the attention of Onur KAYNAK

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

Sample No.	Sample Description		
A	Coated Grill Plate - Black		

Client's reference No. TR 1078195 Buyer Not Provided Order No. Not Provided Division Not Provided Model/Style No. Not Provided Article No. Not Provided Age Grade Not Provided Manufacturer Not Provided Country of Origin Not Provided Country of Destination Not Provided Shipment Date Not Provided End Use Not Provided Sample Receiving Date 17 February 2017 Resubmit Date Not Provided

Test Performing Period 17 February 2017 ~ 22 March 2017

Overall Conclusion

Test Results Please refer to the next page(s).

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İstanbul - Turkey







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Test Parameters	Result
Chemical tests	<u>A1</u>
FCM-Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant A (Ethanol 10%)	M
FCM-Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant B (Acetic acid 3%)	Μ .
FCM-Overall Migration of Total Non-volatile Substance in Plastic Materials - Simulant D1 (Ethanol 50%)	M
FCM - Soluble Heavy Metals in Aqueous Test Simulants (3% Acetic Acid)	М
FCM-Overall Migration of Total Non-volatile Substance in Plastic Materials – With % 95 Ethanol	M
FCM-Overall Migration of Total Non-volatile Substance in Plastic Materials – With Isooctane	M
FCM - Specific Migration of 21 Heavy Metals in Metal Article (EU) (5 g/L Citric Acid)	М
Specific migration of perfluorooctanoic acid	M

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Remark	s :	M = Meets client's requirement
		F = Below client's requirement
		I = Inconclusive
		* = No specified requirement
		# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, therefore, it is recommended to test on individual basis.
Notes:		on the test result from the actual sampling of the received sample(s).
The composite sampling method is based on the client's special request and is a modification from the standard. Residual sample can be returned to client if requested.		based on the client's special request and is a modification from the testing
		client if requested.

The test results relate to the tested items only.

Test reports without SGS seal and authorized signatures are invalid. Reported results do not include uncertainties.

Issued in Istanbul Signed for and on behalf of SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

Selen Harman Customer Services Team Leader

Yağız Barın Section Manager



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Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour	
		,1	Coated			
Α	Coated Grill Plate	A1	main	Metal	Black	

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Overall Migration with %3 Acetic Acid 1

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;

EN 1186-3:2002 aqueous food simulants by total immersion method;

4 hours at 100 °C (3rd Migration): Test Conditions:

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

Result(s) (mg/dm²)

A1 Trial 1 n.d. Trial 2 n.d. Trial 3 n.d.

n.d. Mean (Average)

Conclusion **Pass**

Note(s): n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Detection Limit = 3 mg/dm²

Recommended Max. Limit= 10 mg/dm²

> Remark(s)= 1. Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

> > 2. Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg

3. Test condition & simulant were specified by client.

4. The ratio of surface area to volume ratio is 15,4 dm² per 1 kg of foodstuff in contact with.

5. The volume of simulant used is 0,2 L

6. The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with.

* = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17

^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in

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Overall Migration with %10 Ethanol

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;

EN 1186-3:2002 aqueous food simulants by total immersion method;

Test Conditions: 4 hours at 100 °C (3rd Migration);

Simulant Used: 10% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm²)

Note(s): n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Detection Limit = 3 mg/dm²

Recommended Max. Limit= 10 mg/dm²

Remark(s)= 1. Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

2. Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg

3. Test condition & simulant were specified by client.

4. The ratio of surface area to volume ratio is 15,4 dm² per 1 kg of foodstuff in contact with.

5. The volume of simulant used is 0,2 L

6. The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with.

7. * = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17

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Overall Migration with %50 Ethanol 1

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;

EN 1186-3:2002 aqueous food simulants by total immersion method;

4 hours at 100 °C (3rd Migration); Test Conditions:

Simulant Used: 50% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm²)

A1 Trial 1 n.d.

n.d Trial 2

n.d. Trial 3

n.d. Mean (Average) Conclusion **Pass**

Note(s): n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Detection Limit = 3 mg/dm²

Recommended Max. Limit= 10 mg/dm²

> Remark(s)= Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Analytical tolerance of aqueous simulants is 2 mg/dm2 or 12 mg/kg

3. Test condition & simulant were specified by client.

The ratio of surface area to volume ratio is 15,4 dm² per 1 kg of foodstuff in contact with.

The volume of simulant used is 0,2 L

The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with.

* = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17

^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result

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Overall Migration with %95 Ethanol

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex

for selection of condition and EN 1186-1:2002 for selection of test methods;

EN 1186-14:2002 substitute test.

4 hours at 100 °C (performed at 60 °C 6 hours) (3rd Migration); Test Conditions:

Simulant Used: 95% Ethanol

Result(s) (mg/dm²)

<u>A1</u> Trial 1 n.d. n d Trial 2 Trial 3 n.d. Mean (Average) n.d. Conclusion Pass

Note(s): n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

3 mg/dm² Detection Limit =

Recommended Max. Limit= 10 mg/dm²

Remark(s)= 1.

- Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- Analytical tolerance of fatty food simulants is 3 mg/dm² or 20 mg/kg 2.
- 3. Test condition & simulant were specified by client.
- = Reduction factor of 3 is applied according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III, reference number 06.01 and the end use of product is specified by
- The ratio of surface area to volume ratio is 15,4 dm² per 1 kg of foodstuff in contact with. 5
- The volume of simulant used is 0,2 L
- The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with.
- * = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
- ^ = Only food contact surface area of cap, gaskets, stopper or similar sealing article is applied in the calculation of the result

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Overall Migration with Isooctane

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex

for selection of condition and EN 1186-1:2002 for selection of test methods;

EN 1186-14:2002 substitute test.

Test Conditions: 4 hours at 100 °C (performed at 60 °C 4 hours) (3rd Migration):

Simulant Used: Isooctane

Result(s) (mg/dm2)

A1 Trial 1 n.d. Trial 2 n.d. Trial 3 n.d. Mean (Average) n.d. Conclusion Pass

> Note(s): n.d. = not detected

> > °C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

* Further verification by vegetable oil is recommended for compliance confirmation if the material of the sample is not Nylon, PVC, Organic Coating, Hard and Rigid Plastics, PS, SAN, ABS, Melamine.

Detection Limit = 3 mg/dm²

Recommended Max. Limit= 10 mg/dm²

Remark(s)=

- Recommended max. limit specified by Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg
- Test condition & simulant were specified by client.
- = Reduction factor of 3 is applied according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III, reference number 06.01 and the end use of product is specified by

The ratio of surface area to volume ratio is 15,4 dm² per 1 kg of foodstuff in contact with.

- The volume of simulant used is 0,2 L
- The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with.
- * = Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
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Specific Migration of	21	Heavy	Metals	in	Metal	Article	(EU) '

Test Method:

SGS In House Test Method RSTS-CHEM-603-1 (with reference to EN13130-1:2004), Analysis was performed

by ICP-MS.

Test Conditions:

4 hours at 100 °C (3rd Migration)

Simulant Used:

5 g/L Citric Acid Aqueous Solution

	Result(s)		Reporting Limit (mg/kg)	7 x Specific Release Limit (SRL) (mg/kg)	SRL (mg/kg)
	1 st + 2 nd Migration	3 rd Migration			
Aluminium (Al)	0,22 mg/kg	n.d.	0,2	35	5
Antimony (Sb)	n.d.	n.d.	0,02	0,28	0,04
Arsenic (As)	n.d.	n.d.	0,001	0,014	0,002
Barium (Ba)	n.d.	n.d.	0,25	8,4	1,2
Beryllium (Be)	n.d.	n.d.	0,005	0,07	0,01 .
Cadmium (Cd)	n.d.	n.d.	0,002	0,035	0,005
Chromium (Cr)	n.d.	n.d.	0,1	1,75	0,25
Cobalt (Co)	n.d.	n.d.	0,01	0,14	0,02
Copper (Cu)	n.d.	n.d.	0,1	28	4
Lead (Pb)	n.d.	n.d.	0,005	0,07	0,01
Lithium (Li)	n.d.	n.d.	0,02	0,336	. 0,048
Iron (Fe)	n.d.	n.d.	0,25	280	40
Manganese (Mn)	n.d.	n.d.	0,25	12,6	1,8
Mercury (Hg)	n.d.	n.d.	0,002	0,021	0,003
Molybdenum (Mo)	n.d.	n.d.	0,02	0,84	0,12
Nickel (Ni)	n.d.	n.d.	0,05	0,98	0,14
Silver (Ag)	n.d.	n.d.	0,03	0,56	80,0
Thallium (TI)	n.d.	n.d.	0,0001	0,0007	0,0001
Tin (Sn)	n.d.	n.d.	5	700	100
Vanadium (V)	n.d.	n.d.	0,005	0,07	0,01
Zinc (Zn)	n.d.	n.d.	1	35	5
Conclusion	Pass	Pass			

Note(s):

n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

mg/dm² = milligram per square decimeter of foodstuff in contact with

Remark(s)=

According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles

Test condition & simulant were specified by client

Acidic foodstuff is not considered for compliance (for aluminum and aluminum alloy) 3.

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The ratio of surface area to volume ratio is 12,83 dm2 per 1 kg of foodstuff in contact with

The volume of simulant used is 1,2 L.

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FCM. Determination of	Soluble Heavy	Metals in Te	st Simulants'

Test Method:

SGS In House Test Method RSTS-CHEM-602-1 (with reference to EN13130-1:2004). Analysis

was performed by ICP-OES.

Simulant Used:

3% Acetic Acid (W/V) Aqueous Solution

Test Conditions

4 hours at 100 °C (3rd Migration)

Test Conditions.	4 Hours at 100 O (O Ivingratio	211)	
	Result(s) (mg/kg) A1	Detection Limit (mg/kg)	Recommended Max. Limit (mg/kg)
<u>Test Item</u>	n.d.	0,25	1
Specific Migration of Barium	n.d.	0,01	0,05
Specific Migration of Cobalt	n.d.	0,25	5
Specific Migration of Copper	n.d.	0,25	48
Specific Migration of Iron	n.d.	0,5	0,6
Specific Migration of Lithium	n.d.	0,25	0,6
Specific Migration of Manganese	n.d.	0,5	25
Specific Migration of Zinc	Pass		
Conclusion			, ,

Conclusion

Note(s):

n.d. = not detected

°C = degree Celsius

mg/kg = milligram per kilogram of foodstuff in contact with

Remark(s)=

- Recommended max, limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments,
- Test condition & simulant were specified by client, 2
- The volume of simulant used is 1,2 L, 3.
- The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with 4
 - The ratio of surface area to volume ratio is 15,4 dm² per 1 kg of foodstuff in contact with

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pass Overall assessment The content of the parameter tested is below their respective limit.

Summary of results

Test	Result		
specific migration of perfluorooctanoic acid	pass		

Note:

Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).

Conclusions are based on the relevant requirements; measurement uncertainties are not taken into account. Only results above the relevant detection limit are taken into account for the calculation of sums.

Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.

The composite sampling method is based on the client's special request and could be a modification from the testing standard.

For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.

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TEST REPORT

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Analytical results

Specific migration of perfluorooctanoic acid

Test Method

Migration: DIN 13130-1; measurement: LC-MS/MS

Simulant Duration Temperature Approach

3 % acetic acid 4 hours 100 +/- 2℃ 6 dm²/L

Einheit / Unit

Ergebnis / Result < 0.002

Teilprobe(n) / Subsample(s)
Perfluoroctansäure / perfluoroctanoic mg/dm²

acid

Beurteilung / Conclusion

bestanden / pass

Kundenanforderung:

max. 0,005 mg/dm²

Client's requirement:

max. 0.005 mg/dm²

***** These tests have been performed at SGS INSTITUT FRESENIUS GmbH as subcontracted.



End of Test Report

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In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside

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