



TEST REPORT Job No./Report NoTR1374059

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AGILEXT LLC

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To the attention of Andrzej Choinski

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

Sample No.	Sample Description
A	Plastic Sample (FB3, DB25, DB50, CD40)

Client's reference No. TR 1374059 Sample Receiving Date 10 August 2018

10 August 2018 ~ 10 September 2018 Test Performing Period

Overall Conclusion FAIL

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

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Test Parameters	Result
Chemical tests	<u>A1</u>
FCM - Overall Migration of Total Non-volatile	M
Substance in Plastic Materials - Simulant A	
(Ethanol 10%)	
FCM - Overall Migration of Total Non-volatile	M
Substance in Plastic Materials - Simulant B	
(Acetic acid 3%)	
FCM - Soluble Heavy Metals in Aqueous Test	M
Simulants (3% Acetic Acid)	
FCM - Overall Migration of Total Non-volatile	F
Substance in Plastic Materials (95% Ethanol)	
FCM - Overall Migration of Total Non-volatile	M
Substance in Plastic Materials (Isooctane)	
Polycyclic Aromatic Hydrocarbons (PAHs)	M
Content for German Market	
FCM - Sensory Analysis for Packaging Materials	M
and Packages for Food Products	
Specific migration of Primary Aromatic Amines	M
Isocyanates	M

Remarks		• •	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 testir				
	standard.				
	Residual sample can be returned	l to d	client if requested.		

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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



Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
	Plastic Sample (FB3, DB25,				
Α	DB50, CD40)	A1	Main	Plastic	Blue

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Polycyclic Aromatic Hydrocarbo	ns (PAHs) Content ¹			
Test Method:	SGS In House Test Method RS	SGS In House Test Method RSTS-CHEM-232-1 (based on to AfPS GS 2014:01 PAK)-		
	Analysis by GC-MS			
Test Item	Cas Number	<u>A1</u>		
Naphthalene	91-20-3	n.d.		
Acenaphthylene	208-96-8	n.d.		
Acenaphthene	83-32-9	n.d.		
Fluorene	86-73-7	n.d.		
Phenanthrene	85-01-8	n.d.		
Anthracene	120-12-7	n.d.		
Fluoranthene	206-44-0	n.d.		
Pyrene	129-00-0	n.d.		
Chrysene	218-01-9	n.d.		
Benz(a)anthracene	56-55-3	n.d.		
Benzo(b)fluoranthene	205-99-2	n.d.		
Benzo[j]fluoranthene	205-82-3	n.d.		
Benzo(k)fluoranthene	207-08-9	n.d.		
Benzo(a)pyrene	50-32-8	n.d.		
Benzo[e]pyrene	192-97-2	n.d.		
Indeno[1,2,3-cd]pyrene	193-39-5	n.d.		
Dibenz[a,h]anthracene	53-70-3	n.d.		
Benzo[g,h,i]perylene	191-24-2	n.d.		
Total 18 PAHs		n.d.		
	Conclusion#	Pass		
Note(s): n.d. = not de	etected			
Detection Limit = 0.1 mg/kg (For individual compound)				

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Conclusion is based on the limit per AfPS (Cat 2 Other products under ProdSG)

AfPS (German commission for Product Safety): GS PAHs requirement

Parameter	Category 1	Category 2		Category 3	
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin or frequent contact).		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Naphthalene (mg/kg)	< 1	< 2		< 10	
Acenaphthylene (mg/kg) Acenaphthene (mg/kg) Fluorene (mg/kg) Phenanthrene (mg/kg) Anthracene (mg/kg)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Fluoranthene (mg/kg) Pyrene (mg/kg)					
Benzo[a]anthracene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-cd]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenz[a,h]anthracene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum 18 PAH (mg/kg)	<1	< 5	< 10	< 20	< 50

Remark: The German committee on Product Safety (AfPS) adopted a new PAHs document on August 4, 2014, which is taken into account by the GS certification bodies for the certification process of the GS mark now. The transitional arrangements and deadlines contained therein shall determine the procedure for existing certificates and new certificates; also there are exceptions.

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Overall Migration with %10 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;

Test Conditions: 2 hours at 70 ℃ (3rd migration) Simulant Used: 10% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm2)

<u>A1</u> Trial 1: n.d. Trial 2: n.d. Trial 3: n.d. 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

Reporting Limit: 3 mg/dm² Permissible Limit: 10 mg/dm²

- Remark(s): 1. Permissible 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
 - Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 - 4. The volume of simulant used is 0,13 L
 - 5. 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 is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17
 - 7. 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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Servisleri A. Ş.

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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;

Test Conditions: (3rd migration) 2 hours at 70 °C Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution

Result(s) (mg/dm2)

<u>A1</u> n d Trial 1: n.d. Trial 2: n.d. Trial 3: n.d. 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

Reporting Limit: 3 mg/dm² Permissible Limit: 10 mg/dm²

- Remark(s): 1. Permissible 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 according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 - The volume of simulant used is 0.13 L
 - 5. The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with.
 - 6. Total food contact surface area of whole 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 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 1186-14:2002 substitute test.

Test Conditions: 2 hours at 70 °C performed at 2 hours 60 °C (3rd migration)

Simulant Used: 95% Ethanol (V/V) Aqueous Solution

Result(s) (mg/dm2)

	<u>A1</u>
Trial 1 :	23,99
Trial 2 :	22,58
Trial 3 :	23,19
Average :	23,25
Conclusion :	Fail

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.

Reporting Limit: 3 mg/dm² Permissible Limit: 10 mg/dm²

- Remark(s): 1. Permissible 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
 - Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 - The volume of simulant used is 0,13 L
 - 5. 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 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 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 1186-14:2002 substitute test.

Test Conditions: 2 hours at 70 °C performed at 30 minutes 40 °C (3rd migration)

Simulant Used: Isooctane

Result(s) (mg/dm2)

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

* 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.

Reporting Limit: 3 mg/dm² Permissible Limit: 10 mg/dm²

- Remark(s): 1. Permissible 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
 - Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 - The volume of simulant used is 0,13 L
 - 5. 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 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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Determination of Soluble Heavy Metals in Aqueous Test Simulants¹

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

Analysis by ICP-OES.

Test Conditions: 2 hours at 70 °C (3rd Migration) Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution

	Result(s)		
<u>Test Items</u>	<u>(mg/kg)</u> <u>A1</u>	Reporting Limit (mg/kg)	<u>Permissible Limit</u> (mg/kg)
Specific Migration of Aluminum	n.d.	0,10	1,00
Specific Migration of Barium	n.d.	0,25	1,00
Specific Migration of Cobalt	n.d.	0,01	0,05
Specific Migration of Copper	n.d.	0,25	5,00
Specific Migration of Iron	n.d.	0,25	48,00
Specific Migration of Lithium	n.d.	0,50	0,60
Specific Migration of Manganese	n.d.	0,25	0,60
Specific Migration of Zinc	n.d.	0,50	5,00
Conclusion :	Pass		

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

°C = degree Celsius

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

- Remark(s): 1. Permissible limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 - 2. Test condition & simulant were specified according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
 - 3. The volume of simulant used is 0,13 L,
 - 4. The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with

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Sensorial Examination of Odour and Taste Test

Test Method: With reference to DIN 10955:2004

Test Media: Deionized water

Number of Panelists: 6

Test Conditions: 2 hours at 70 °C

Test Item(s)	Result(s) (Point scale) A1	Permissible Limit (Point Scale)	
Odour	0	2,5	
Taste	0	2,5	
Conclusion :	Pass		

Note(s): Intensity scale (rounded at 0,5):

0 - No perceptible difference

1 - Just perceptible difference

2 - Slight difference 3 - Marked difference 4 - Strong difference

Remark(s): 1. Permissible Limit is according to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments.

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Specific migration of Primary Aromatic Amines

Test Method: With reference to EN13130-1:2004 and EU JRC Guideline EUR 24815 EN 2011 - Analysis

by LC-MS/MS.

Test Conditions: 2 hours at 70 °C (1st Migration) Simulant Used: 3% Acetic Acid (w/v) Aqueous Solution

Operator Name: Burak Melkonyan Type of Migration: Total immersion

	Result(s) (mg/kg)
Test Items	<u>A1</u>
2,4,5-Trimethylaniline (2,4,5-TMA)	n.d.
2,4-Dimethylaniline (2,4-DMA)	n.d.
2,4-Toluenediamine (2,4-TDA)	n.d.
2,6-Dimethylaniline (2,6-DMA)	n.d.
2,6-Toluenediamine (2,6-TDA)	n.d.
2-Methoxy-5-Methylaniline (2-M-5-MA)	n.d.
3,3-Dimethylbenzidine (3,3-DMB)	n.d.
4,4-Diaminodiphenylether (4,4-DPE)	n.d.
4,4'-Methylenedianiline (4,4-MDA)	n.d.
4,4-Methylenedi-o-toluidine (4,4-MDoT)	n.d.
4-Aminobiphenyl (4-ABP)	n.d.
4-Chloro-Aniline (4-CA)	n.d.
4-Chloro-o-Toluidine (4-CoT)	n.d.
Aniline (ANL)	n.d.
4-Methoxy-m-phenylenediamine (4-M-mPDA)	n.d.
Benzidine (BNZ)	n.d.
m-Phenylenediamine (m-PDA)	n.d.
o-Anisidine (o-ASD)	n.d.
o-Toluidine (O-T)	n.d.
p-Phenylenediamine (p-PDA)	n.d.
Total	n.d.
Conclusion :	Pass

Note(s): n.d. = not detected °C = degree Celsius

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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 the scope of IAS Accreditation.

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

Reporting Limit: 0,002 mg/kg Permissible Limit: 0,01 mg/kg Total

- Remark(s): 1. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments and Commission Regulation (EU) No 284/2011 of 22 March 2011.
 - 2. Test condition was referred to EU JRC guidelines EUR 24815 EN 2011, in support of Commission Regulation (EU) No 284/2011 of 22 March 2011,
 - 3. The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with
 - 4. The volume of simulant used is 0,13 L,

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<u>Isocyanates</u>

Test Method based on DIN EN 13130-8:2004

Sample(s) /Subsample(s)	<u>Unit</u>	Result 1
Diphenylmethane-4,4` diisocyanate	mg/kg	< 0.04
Diphenylmethane-2,4 diisocyanate	mg/kg	< 0.04
Hexamethylene diisocyanate	mg/kg	< 0.05
2,4-Toluene diisocyanate	mg/kg	< 0.05
2,6-Toluene diisocyanate	mg/kg	< 0.05
Isophorone diisocyanate	mg/kg	< 0.04
Total Isocyanate (as NCO)	mg/kg	-
Conclusion		Pass

Note:

Requirement: Sum: max. 1 mg/kg (Regulation (EU) No 10/2011)

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^{**} This test has been performed as subcontracted at SGS Germany.

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End of Test Report

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