

TEST REPORT

Job No./Report No TR2226613-RV1

Date: 12 December 2022

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FREYA MELAMİN DIŞ TİC. SAN. LTD. ŞTİ.

MAHMUTBEY MAH. 2428. SOK. NO: 107 BAĞCILAR/İSTANBUL

TEL: 0532 686 44 23

To the attention of Özge Uzun

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

Sample No.	Sample Description
A	Melamine Tableware And Presentation Utensils

Client's reference No. : TR 2226613-RV1
Reference Code : SEE NEXT PAGE
Sample Receiving Date : 24 November 2022
Resubmit Date : 12 December 2022
Test Performing Period : 24 November 2022~09 December 2022

Overall Conclusion : **PASS**

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

Performed Test Summary: Selected test(s) as requested by client against Client's performance standard.

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*** Remark(s):**

1 - Client provided declaration that below samples are made of the same material and color which are different on the shape and size merely.

- *FRY3356 BEIGE GOLDEN MARBLE ÇEŞME CAKE PLATE/BOXED - KREM ALTINMERMER ÇEŞME KEK FANUS/KUTULU
- *FRY3356 BLACK GOLDEN MARBLE ÇEŞME CAKE PLATE/BOXED - SİYAH ALTINMERMER ÇEŞME KEK FANUS/KUTULU
- *FRY2298 BEIGE GOLDEN MARBLE AKDENİZ CAKE PLATE/BOXED – KREM ALTINMERMER AKDENİZ KEK FANUS/KUTULU
- *FRY2298 BLACK GOLDEN MARBLE AKDENİZ CAKE PLATE/BOXED – SİYAH ALTINMERMER AKDENİZ KEK FANUS/KUTULU
- *FRY1314ALTIN BEIGE GOLDEN HANDLE COOKIE STAND/BOXED – KREM ALTINMERMER ALTIN KULPLU KATLI KURABİYELİK/KUTULU
- *FRY1314ALTIN BLACK GOLDEN HANDLE COOKIE STAND/BOXED – SİYAH ALTINMERMER ALTIN KULPLU KATLI KURABİYELİK/KUTULU
- *FRY3349 BEIGE GOLDEN MARBLE SQUARE TRAY/TRIPLE SET – KREM ALTINMERMER 3LÜ KARE TEPSİ SET
- *FRY3349 BLACK GOLDEN MARBLE SQUARE TRAY/TRIPLE SET – SİYAH ALTINMERMER 3LÜ KARE TEPSİ SET

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Test Parameters	Result
Chemical tests	A1
FCM – Melamine (3% Acetic Acid)	M
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%)	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (95% Ethanol)	M
FCM - Overall Migration of Total Non-volatile Substance in Plastic Materials (Isooctane)	M
FCM - Sensory Analysis for Packaging Materials and Packages for Food Products	M
FCM - Specific Migration of Primary Aromatic Amines	M
FCM - Specific Migration of Formaldehyde	M
FCM - Soluble Heavy Metals in Aqueous Test Simulants (3% Acetic Acid)	M

Remarks	M = Meets client's requirement
	F = Does not meet client's requirement
	I = Inconclusive
	* = No specified requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).
	Residual sample can be returned to client if requested.

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The test results relate to the tested items only.
Test reports without SGS seal and authorised signatures are invalid.

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

IN THIS REVISED-1 REPORT, REFERENCE CODE WERE ADDED BY THE REQUEST OF THE APPLICANT. TYPING MISTAKE WAS CORRECTED.

THIS REPORT SUPERSEDES OUR REPORT NO: 2226613 DATED 09.12.2022

RAVİYE MUTLU
Customer Services Supervisor

Bora Şirinbilek
Hardline C&H Testing Services Manager




Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Melamine Tableware And Presentation Utensils	A1	Inner main	Plastic	White-gold

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Testing as per Commission Regulation (EU) No 10/2011

Plastic – Overall migration¹

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 (1st + 2nd + 3rd Migration); EN 1186-3:2002 aqueous food simulants by article filling;

Simulant Used	Test Condition	Result (mg/dm ²)			Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		A1				
		1 st migration	2 nd migration	3 rd migration		
10% Ethanol (V/V) Aqueous Solution	2 hours at 70 °C	ND	ND	ND	3.0	10
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 70 °C	ND	ND	ND	3.0	10
Stability [^]		Yes			--	--
Conclusion	--	PASS			--	--

Note : 1. mg/dm² = milligram per square decimeter

2. °C = degree Celsius

3. ND = Not Detected

4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of aqueous simulants is 2mg/dm².

2. Test condition & simulant were specified by client.

3. The ratio of surface area to volume ratio is 6,15 dm² per 1 kg of foodstuff in contact with.

4. The volume of simulant used is 0,3 L.

5. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.

6. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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Testing as per Commission Regulation (EU) No 10/2011

Plastic – Overall migration¹

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 (1st + 2nd + 3rd Migration); EN 1186-14:2002 substitute test.

Simulant Used	Test Condition	Result (mg/dm ²)			Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		A1				
		1 st migration	2 nd migration	3 rd migration		
95% Ethanol	2 hours at 60 °C (2 hours at 70 °C)	ND	ND	ND	3.0	10
Isooctane	30 minutes at 40°C (2 hours at 70 °C)	ND	ND	ND	3.0	10
Stability [^]		Yes			--	--
Conclusion	--	PASS			--	--

Note : 1. mg/dm² = milligram per square decimeter

2. °C = degree Celsius

3. ND = Not Detected

4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of aqueous simulants is 2mg/dm².

2. Test condition & simulant were specified by client.

3. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.

4. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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Article 3 of European Regulation No. 1935/2004

Sensory Examination – Odour and Taste Test

Method: With reference to DIN10955: 2004

Simulant Used	Test Item	Test Condition	Result [^]	Maximum Permissible Limit
			A1	
Water	Sensorial examination odour	40°C for 24 hours	0	≤2,5
	Sensorial examination taste		1	≤2,5
Conclusion			PASS	--

Note: 1. Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

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

3. No of panelist: 6

Remark:

* – Significant physical change of appearance on test media was observed.

[^] -- Result referring to median for 6 panelist

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Plastic – Specific Migration of Primary Aromatic Amine¹

Method: With reference to EN 13130-1:2004 and SGS IHTM CTSL-SOP-RSTS-CHEM 502-4 Analysis was performed by UV-Vis Spectrophotometer.

Simulant Used: 3% acetic acid (w/v) in aqueous solution

Test Condition: 40°C for 24 hours (1st + 2nd + 3rd migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	A1				
	1 st Migration	2 nd Migration	3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	0.002	0.01
Stability [^]	Yes			--	--
Conclusion	PASS			--	--

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3. ND = Not Detected

4. Permissible Limit is according to Commission Regulation (EU) 10/2011 of 14 January 2011

Remark:

1. Test condition & simulant were specified by client.

2. Test condition, simulant & reporting limit were specified by client.

3. The volume of simulant used is 0,3 L.

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

5. ^ = Stability trend is based on the result of the material from first to third migration test as per

described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.

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Ingredient list review with reference to authorised substances stated in Commission Regulation (EU) No 10/2011

Melamine – Specific migration of Formaldehyde¹

Method: With reference to EN 13130-1:2004 for selection of test method. Analysis was performed by UV-vis Spectrophotometer.

Simulant Used: 3% acetic acid (w/v) in aqueous solution

Test Condition: 70°C for 2 hours (1st + 2nd + 3rd migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	A1				
	1 st migration	2 nd migration	3 rd migration		
Formaldehyde	2,39	3,23	3,59	1.5	15
Stability [^]	Yes			--	--
Comment	PASS			--	--

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with
 2. °C = degree Celsius
 3. ND = Not Detected
 4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Test condition & simulant were specified by client.
2. Test condition, simulant & reporting limit were specified by client.
3. The ratio of surface area to volume ratio is 6,15 dm² per 1 kg of foodstuff in contact with.
4. The volume of simulant used is 0,3 L.
5. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
6. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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Ingredient list review with reference to authorised substances stated in Commission Regulation (EU) No 10/2011

Melamine – Specific migration of Melamine¹

Method: With reference to EN 13130-1:2004. Analysis was performed by HPLC-DAD / HPLC-MS.

Simulant Used: 3% acetic acid (w/v) in aqueous solution

Test Condition: 40°C for 24 hours (3rd migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	A1				
	1 st migration	2 nd migration	3 rd migration		
Melamine	ND	ND	ND	2.0	2.5
Stability [^]	Yes			--	--
Comment	PASS			--	--

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. ND = Not Detected

3. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Test condition & simulant were specified by client.

2. The ratio of surface area to volume ratio is 6,15 dm² per 1 kg of foodstuff in contact with.

3. The volume of simulant used is 0,3 L.

4. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.

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Plastic – Specific Migration of Heavy Metals¹

Method: With reference to EN 13130-1:2004 and SGS In House Method RSTS-CHEM-602-1. Analysis was performed by ICP-MS / ICP-OES.

Simulant Used: 3% acetic acid (w/v) in aqueous solution (article filling)

Test Condition: 40°C for 24 hours (1st + 2nd + 3rd migration);

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	A1				
	1 st migration	2 nd migration	3 rd migration		
Aluminium	ND	ND	ND	0.1	1
Antimony	ND	ND	ND	0.01	0.04
Arsenic	ND	ND	ND	0.01	0.01
Barium	ND	ND	ND	0.25	1
Cadmium	ND	ND	ND	0.002	0.002
Chromium	ND	ND	ND	0.01	0.01
Cobalt	ND	ND	ND	0.01	0.05
Copper	1.03	0.92	0.28	0.25	5
Iron	ND	ND	ND	5	48
Lead	ND	ND	ND	0.01	0.01
Lithium	ND	ND	ND	0.1	0.6
Manganese	ND	ND	ND	0.1	0.6
Mercury	ND	ND	ND	0.01	0.01
Nickel	ND	ND	ND	0.01	0.02
Zinc	ND	ND	ND	0.5	5
Europium	ND	ND	ND	0.025	0.05
Gadolinium	ND	ND	ND	0.025	
Lanthanum	ND	ND	ND	0.025	
Terbium	ND	ND	ND	0.025	
Stability [^]	Yes			--	--
Conclusion	PASS			--	--

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 2. °C = degree Celsius
 3. ND = Not Detected
 4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume ratio is 6,15 dm² per 1 kg of foodstuff in contact with.
3. The volume of simulant used is 0,3 L.
4. ^ = Stability trend is based on the result of the material from first to third migration test as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V for repeated use articles.
5. The compliance is based on the stability trend and 3rd migration result. For substances which limit is "Not Detected", the compliance is based on the 1st migration test result if it is detected.

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End of Test Report

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