

TEST REPORT

Job No./Report No TR2385503

Date: 02 November 2023

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GİRİŞİM ENDÜSTRİYEL MUTFAK EŞYALARI GIDA İNŞ. SAN. VE TİC. LTD. ŞTİ.
SARAY MAH. ADNAN MENDERES BULV. NO:99 KAHRAMANKAZAN / ANKARA
TEL: 0532 453 61 12

To the attention of Mustafa Yıldırım

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

Sample No.	Sample Description
A	WHITE MELAMINE PLATE

Client's reference No. : TR 2385503
Reference No : 28683
Colour : WHITE
Manufacturer : GİRİŞİM ENDÜSTRİYEL MUTFAK EŞYALARI GIDA İNŞ. SAN. VE TİC. LTD. ŞTİ.
Country of Destination : EU
Sample Receiving Date : 18 October 2023
Test Performing Period : 18 October 2023~02 November 2023

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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Test Parameters	Result
Chemical tests	A1
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 - Specific Migration of Formaldehyde	M
FCM - Melamine (3% Acetic Acid)	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.

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	WHITE MELAMINE PLATE	A1	Inner main	Plastic	White

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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 1186-3:2022 Test methods for overall migration in evaporable simulants

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)	2 hours at 70 °C	ND	ND	ND	3.0	10
3% Acetic Acid (W/V)	2 hours at 70 °C	ND	ND	ND	3.0	10
95% Ethanol	2 hours at 70 °C (2 hours at 60 °C)	ND	ND	ND	3.0	10
Isooctane	2 hours at 70 °C (30 minutes at 40 °C)	ND	ND	ND	3.0	10
Stability [^]	--	Compliant			--	--
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 evaporable simulants is 2 mg/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.

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

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Commission Implementing Regulation (EU) No 321/2011 amending Regulation (EU) No 10/2011 and Article 3 of European Regulation No. 1935/2004

Specific migration of Formaldehyde¹

Method: With reference to EN 13130-1:2004 & EN 13130-23:2005 - Analysis by UV-VIS

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

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	3.57	5.24	3.83	1.5	15
Stability [^]	Compliant			--	--
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. The ratio of surface area to volume ratio is 6 dm² per 1 kg of foodstuff in contact with.
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.

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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 BS EN 13130-1:2004 & DD CEN/TS 13130-13:2005 - Analysis by HPLC-MS/HPLC-DAD

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

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		
Melamine	ND	ND	ND	2.0	2.5
Stability [^]	Compliant			--	--
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 dm² per 1 kg of foodstuff in contact with.
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.
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Plastic – Specific Migration of Heavy Metals¹

Method: BS EN 13130-1 - Analysis by ICP-MS/ICP-OES

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

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		
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	ND	ND	ND	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 [^]	Compliant			--	--
Conclusion	PASS			--	--

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

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3. ND = Not Detected
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End of Test Report

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