

TEST REPORT

LAB LOCATION: TURKEY LAB NO.: (7219)360-0272 **SERVICE TYPE: Regular** DATE IN: December 27th, 2019 DATE OUT: January 07th, 2020

: KULSAN MELAMIN PLASTIK SAN. TİC. A.S. MATERIAL SUBMITTED

(Attn: onur@kulsan.com.tr)

SUPPLIER REFERENCE

BUYER

: KULSAN MELAMIN PLASTIK SAN. TİC. A.S. **MANUFACTURER**

COUNTRY OF ORIGIN

COUNTRY OF DESTINATION : /

SAMPLE DESCRIPTION : Sample A: MELAMIN TABLEWARE

COLOR SUBMITTED CARE

INSTRUCTION

GENERAL CONCLUSION PASS

SUMMARY OF TEST RESULTS

TEST REQUIRED	Sample A
Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission	P
Regulation (EU) No. 10/2011 and Its Amendments	
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation	P
(EU) No. 10/2011 and Its Amendments – Simulant 3 % Acetic Acid	
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation	P
(EU) No. 10/2011 and Its Amendments – Simulant 10 % Ethanol	
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation	P
(EU) No. 10/2011 and Its Amendments – Simulant 95% Ethanol	
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation	P
(EU) No. 10/2011 and Its Amendments – Simulant Isooctane	

P:PASS F:FAIL

EXECUTIVE SUMMARY: Only vendor selected tests have been performed and submitted samples have been rated as "PASS".

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Bureau Veritas Consumer Products Services Turkey BV CPS Test Lab. Ltd. Sti.

Eylem Yaldizli

Senior Client Team Lead -Hardline

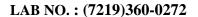
Yagiz Barin

Hardline & Pharma Lab. Manager



-Photo of the Submitted Sample-







TEST RESULTS

<u>Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments</u>

Test Condition: 3% Acetic acid, 2 h, 70 °C, 3. cycle

Tested Item(s)

Sample A : I001 Creamy White Melamine Bowl

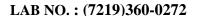
		Result	Maximum Allowable Limit			
Parameter	Unit	I001				
Aluminium (Al)	mg/kg	<0.1	1			
Barium (Ba)	mg/kg	<0.1	1			
Cobalt (Co)	mg/kg	< 0.005	0.05			
Copper (Cu)	mg/kg	< 0.5	5			
Iron (Fe)	mg/kg	<5	48			
Lithium (Li)	mg/kg	< 0.1	0.6			
Manganese (Mn)	mg/kg	< 0.1	0.6			
Nickel (Ni)	mg/kg	< 0.002	0.02			
Zinc (Zn)	mg/kg	<3	5			
Conclusion	-	PASS	-			

Note: "<" = less than

mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP)

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TEST RESULT

Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Method: Test Method: I EN 1186-1: 2002 Total Filling Method

Test Method: II EN 1186-1: 2002 Total Immersion Method

Test Conditions : 3 % Acetic Acid, 2 hours, 70 °C, 3 cycle

10% Ethanol, 2 hours, 70 °C, 3 cycle 95% Ethanol, 2 hours, 60 °C, 3 cycle Isooctane, 0.5 hours, 40 °C, 3 cycle

: I001 Creamy White Melamine Bowl

I002 Black Melamine BowlI003 Brown Melamine Bowl

: I004 Milky Coffee Melamine Bowl

Tested Item(s) : I005 Khaki Melamine Bowl **Sample A** : I006 Bitter Melamine Bowl

: I007 Grey Melamine Bowl

: I008 White Granit Melamine Bowl: I009 Grey Granit Melamine Bowl

: I010 Red Melamine Bowl: I011 Pistachio Melamine Bowl

Simulant Used	Unit		Re	Maximum Allowable Limit		
		I001	I002	1003	I004	
Test Method	-	I	I	I	I	
Volume of simulant used	ml	100	100	100	100	-
Food Contact Surface Area	dm^2	1.1	1.1	1.1	1.1	-
3 % Acetic Acid (1.cycle)	mg/kg	27.00	26.00	24.33	31.00	60
10% Ethanol (1.cycle)	mg/kg	16.67	<10	12.67	<10	60
95% Ethanol (1.cycle)	mg/kg	28.00	31.33	29.33	36.00	60
Isooctane (1.cycle)	mg/kg	29.67	36.00	32.67	35.00	60
3 % Acetic Acid (2.cycle)	mg/kg	14.76	20.33	12.00	23.00	60
10% Ethanol (2.cycle)	mg/kg	<10	<10	10.00	<10	60
95% Ethanol (2.cycle)	mg/kg	26.67	20.00	19.67	31.00	60
Isooctane (2.cycle)	mg/kg	27.67	22.00	33.67	27.67	60
3 % Acetic Acid (3.cycle)	mg/kg	19.00	15.67	14.00	18.00	60
10% Ethanol (3.cycle)	mg/kg	11.33	<10	13.00	11.67	60
95% Ethanol (3.cycle)	mg/kg	23.00	19.67	20.33	25.00	60
Isooctane (3.cycle)	mg/kg	26.67	21.67	26.33	27.67	60
Conclusion	-	PASS	PASS	PASS	PASS	-

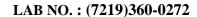
Note: "<" = less than

mg/dm² = milligram per square decimeter

Remark: 1) The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory

statutes.

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TEST RESULT

Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments

Test Method: Test Method: I EN 1186-1: 2002 Total Filling Method

Test Method: II EN 1186-1: 2002 Total Immersion Method

Test Conditions : 3 % Acetic Acid, 2 hours, 70 °C, 3 cycle

10% Ethanol, 2 hours, 70 °C, 3 cycle 95% Ethanol, 2 hours, 60 °C, 3 cycle Isooctane, 0.5 hours, 40 °C, 3 cycle

Simulant Used	Unit	Result				Maximum Allowable Limit
		I005	I006	1007	I008	
Test Method	-	I	I	I	I	
Volume of simulant used	ml	100	100	100	100	-
Food Contact Surface Area	dm^2	1.1	1.1	1.1	1.1	•
3 % Acetic Acid (1.cycle)	mg/kg	25.00	18.00	26.67	29.33	60
10% Ethanol (1.cycle)	mg/kg	<10	<10	16.33	18.00	60
95% Ethanol (1.cycle)	mg/kg	30.00	27.67	30.67	28.00	60
Isooctane (1.cycle)	mg/kg	30.67	32.33	35.00	34.33	60
3 % Acetic Acid (2.cycle)	mg/kg	25.33	<10	23.67	14.33	60
10% Ethanol (2.cycle)	mg/kg	<10	<10	10.00	<10	60
95% Ethanol (2.cycle)	mg/kg	25.00	22.00	20.00	21.67	60
Isooctane (2.cycle)	mg/kg	24.00	24.00	26.00	26.67	60
3 % Acetic Acid (3.cycle)	mg/kg	<10	<10	19.00	18.33	60
10% Ethanol (3.cycle)	mg/kg	<10	10.00	<10	<10	60
95% Ethanol (3.cycle)	mg/kg	22.00	19.00	15.00	17.33	60
Isooctane (3.cycle)	mg/kg	25.00	20.00	15.67	29.33	60
Conclusion	-	PASS	PASS	PASS	PASS	-

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 $mg/dm^2 = milligram per square decimeter$

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Test Conditions : 3 % Acetic Acid, 2 hours, 70 °C, 3 cycle

10% Ethanol, 2 hours, 70 °C, 3 cycle 95% Ethanol, 2 hours, 60 °C, 3 cycle Isooctane, 0.5 hours, 40 °C, 3 cycle

Cimulant Hand	TT:4	Result			Maximum Allowable Limit
Simulant Used	Unit	1009	I010	I011	
Test Method	-	I	I	I	
Volume of simulant used	ml	100	100	100	-
Food Contact Surface Area	dm^2	1.1	1.1	1.1	-
3 % Acetic Acid (1.cycle)	mg/kg	28.00	19.33	25.67	60
10% Ethanol (1.cycle)	mg/kg	<10	<10	<10	60
95% Ethanol (1.cycle)	mg/kg	35.00	30.67	31.33	60
Isooctane (1.cycle)	mg/kg	32.00	30.00	32.33	60
3 % Acetic Acid (2.cycle)	mg/kg	12.67	<10	21.00	60
10% Ethanol (2.cycle)	mg/kg	<10	10.33	<10	60
95% Ethanol (2.cycle)	mg/kg	29.00	19.33	21.33	60
Isooctane (2.cycle)	mg/kg	26.33	23.33	33.33	60
3 % Acetic Acid (3.cycle)	mg/kg	11.67	<10	15.33	60
10% Ethanol (3.cycle)	mg/kg	<10	<10	<10	60
95% Ethanol (3.cycle)	mg/kg	22.00	19.00	19.00	60
Isooctane (3.cycle)	mg/kg	23.33	18.33	30.33	60
Conclusion	-	PASS	PASS	PASS	-

Note: "<" = less than

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statutes.

-END OF REPORT-

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