



TEST REPORT

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

MATERIAL SUBMITTED : KULSAN MELAMIN PLASTIK SAN. TİC. A.S.
(Attn: onur@kulsan.com.tr)
SUPPLIER REFERENCE : /
BUYER : /
MANUFACTURER : KULSAN MELAMIN PLASTIK SAN. TİC. A.S.
COUNTRY OF ORIGIN : TURKEY
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 Regulation (EU) No. 10/2011 and Its Amendments	P
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments – Simulant 3 % Acetic Acid	P
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments – Simulant 10 % Ethanol	P
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments – Simulant 95% Ethanol	P
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments – Simulant Isooctane	P

P:PASS
F:FAIL

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



**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

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

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

Tested Item(s)
Sample A : I001 Creamy White Melamine Bowl

Parameter	Unit	Result	Maximum Allowable Limit
		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)



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

Tested Item(s) : I001 Creamy White Melamine Bowl
I002 Black Melamine Bowl
I003 Brown Melamine Bowl
I004 Milky Coffee Melamine Bowl
Sample A : I005 Khaki Melamine Bowl
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	Result				Maximum Allowable Limit
		I001	I002	I003	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.



TEST RESULT

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

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Test Conditions : 3 % Acetic Acid, 2 hours, 70 °C, 3 cycle
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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	I007	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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95% Ethanol, 2 hours, 60 °C, 3 cycle
Isooctane, 0.5 hours, 40 °C, 3 cycle

Simulant Used	Unit	Result			Maximum Allowable Limit
		I009	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
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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	-

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-END OF REPORT-