



**BUREAU  
VERITAS**

# TEST REPORT

**LAB LOCATION: TURKEY**  
**LAB NO. : (7219)116-0087 REVISION 2**  
**SERVICE TYPE: Regular**  
**DATE IN: April 26<sup>th</sup>,2019**  
**DATE OUT: May 06<sup>th</sup>,2019**  
**REVISION DATE: May 08<sup>th</sup>,2019**  
**SECOND REVISION DATE: May 14<sup>th</sup>,2019**

**MATERIAL SUBMITTED** : TÜV AUSTRIA TÜRK  
(Attn: olcay.tasar@tuv.at)  
**SUPPLIER REFERENCE** : /  
**STYLE / ITEM NO** : /  
**BUYER** : /  
**MANUFACTURER** : FREYA HOMEWARE  
**COUNTRY OF ORIGIN** : TURKEY  
**COUNTRY OF DESTINATION** : /  
**SAMPLE DESCRIPTION** : **Sample A: MELAMINE TABLEWARE**  
**MATERIAL INFORMATION** : /  
**SUBMITTED CARE** : /  
**INSTRUCTION** : /  
**GENERAL CONCLUSION** : **SEE TEST RESULT**

## SUMMARY OF TEST RESULTS

TEST REQUIRED	Sample A
Capacity Measurement	DATA
Dimensions -Thickness	P
Dimensions –Handles	DATA
Dimensions –Lip or Rim	DATA
Resistance To Boiling Water	P
Resistance To Dry Heating	P
Resistance To Low Temperature	P
Warping	P
Appearance	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 Isooctane	P
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments – Simulant 95 % Ethanol	P
Specific Migration of Formaldehyde in Plastic CEN TS 13130	P

P:PASS  
F:FAIL

C/N GY/EY

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

**REMARK 1:** 72191160087 REVISION. test report dated May 08<sup>th</sup>, 2019 is not valid, it is replaced by this report 72191160087 REVISION 2.

**REMARK 2:** As per client’s request, “Water Absorpance” test has been removed from the test report. Overall conclusion has been changed as DATA from FAIL.

**REMARK 3:** As per client’s request, “Country Of Destination” information has been removed from the test report.

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

**Eylem Yıldızlı  
Senior Client Team Lead -Hardline**

**Kerem Can  
Operations Manager**



**-Photo of the Submitted Sample-**

**Sample A**





## TEST RESULTS

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

**Test Method** : EN 1186-1: 2002 Total Filling 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 Black & Grey Enamel Plate  
**Sample A**

Simulant Used	Unit	Result	Maximum Allowable Limit
		I001	
Volume of simulant used	ml	250	-
Food Contact Surface Area	dm <sup>2</sup>	4	-
3 % Acetic Acid (1.cycle)	mg/ kg	10.80	60
10 % Ethanol (1.cycle)	mg/ kg	< 5	60
95 % Ethanol(1.cycle)	mg/ kg	32.00	60
Isooctane (1.cycle)	mg/ kg	34.80	60
3 % Acetic Acid (2.cycle)	mg/ kg	8.00	60
10 % Ethanol (2.cycle)	mg/ kg	< 5	60
95 % Ethanol(2.cycle)	mg/ kg	24.00	60
Isooctane (2.cycle)	mg/ kg	32.00	60
3 % Acetic Acid (3.cycle)	mg/ kg	6.00	60
10 % Ethanol (3.cycle)	mg/ kg	< 5	60
95 % Ethanol(3.cycle)	mg/ kg	24.00	60
Isooctane (3.cycle)	mg/ kg	32.00	60
<b>Conclusion</b>	-	<b>PASS</b>	-

Note: “<” = less than  
 mg/dm<sup>2</sup> = 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 RESULTS

### Specific Migration of Formaldehyde in Plastic CEN TS 13130

**Test Method:** CPSD-AN-00137-MTHD

**Test Condition:** 3% Acetic acid: 70 °C, 2 hours

**Tested Items** : I001 Black & Grey Enamel Plate  
**Sample (A)**

Parameter	Simulant Used	Unit	Result	Maximum Allowable Limit
			I001	
Food contact surface area	-	dm <sup>2</sup>	4	-
Volume of simulant used	-	mL	250	-
Formaldehyde	3% Acetic acid	mg/kg	<15	15
<b>Conclusion</b>	-	-	PASS	-

Note: “<” = less than  
 mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 modified and CEN/TS 13130-23:2005 modified.

Remark: 1) For article intended for repeated use, the migration tests are carried out three times on the same test sample and test result is shown in result table.

2) Selected test, test simulant were specified by client.



## TEST RESULTS

### DIMENSIONS -THICKNESS

**Test Method:** BV In House Method -GSO 142/2010

**Tested Item(s)** : I001 Black & Grey Enamel Plate  
**Sample A**

Test Item	Unit	Area (cm <sup>2</sup> )	Results	Client Requirement	Conclusion
Thickness	mm	400	3.5	SEE BELOW INFORMATION (APPENDIX A)	<b>PASS</b>
Depth	mm	400	17.2	SEE BELOW INFORMATION (APPENDIX A)	<b>PASS</b>

### DIMENSIONS -HANDLES

**Test Method:** BV In House Method - GSO 142/2010

**Tested Item(s)** : I001 Black & Grey Enamel Plate  
**Sample A**

Test Item	Unit	Results	Client Requirement	Conclusion
A	-	NA	SEE BELOW INFORMATION (APPENDIX B)	/

### DIMENSIONS –LIPS or RIMS

**Test Method:** BV In House Method - GSO 142/2010

**Tested Item(s)** : I001 Black & Grey Enamel Plate  
**Sample A**

Test Item	Unit	Results	Client Requirement	Conclusion
A	mm	NA	>0.8	/



## TEST RESULTS

### CAPACITY MEASUREMENT

**Test Method:** BV In House Method - GSO 142/2010

**Tested Item(s)** : I001 Black & Grey Enamel Plate  
**Sample A**

Test Item	Req.	Results	Conclusion
A	The actual capacities shall not be less than the nominal. The actual capacity may exceed the relevant nominal capacity by no more than 4%.	Actual Capacity : 615 ml Nominal Capacity : No Claim	<b>DATA</b>

N/A: Not Applicable

### RESISTANCE TO BOILING WATER

**Test Method:** BV In House Method - GSO 142/2010

**Tested Item(s)** : I001 Black & Grey Enamel Plate  
**Sample A**

Test Item	Req.	Results	Conclusion
A	No cracks shall be developed in the sample, and no marks or any other defects shall show at the surface that will impair its appearance or serviceability after immersed in a tank of boiling water for 5 mins then removed and allowed to stand for 1h at room temperature and repeated for 3 additional times. Any decrease in capacity shall not exceed 4% of the actual capacity (original). (After determining its capacity, the sample shall be immersed in a tank of boiling water for 5 min then removed and allowed to stand for 1 h at room temperature. This process shall be repeated 3 other times).	No any aesthetic deformation has been observed.	<b>MEET</b>



## TEST RESULTS

### APPEARANCE

**Test Method:** BV In House Method - GSO 142/2010

**Tested Item(s)** : I001 Black & Grey Enamel Plate  
**Sample A**

Test Item	Req.	Results	Conclusion
A	The product surface shall possess a uniformly high gloss. After removal of the flash, the flash position shall be polished such that the finished product shall be clean, made well and free from any defects likely to impair its appearance or serviceability. It shall be also free from pits, orange pocks, cracks and bubbles. If decorations are used, these shall preferably be moulded-in and the result product surface shall be as durable as the undecorated melamine surface.	No any aesthetic deformation has been observed.	<b>PASS</b>

### WARPING

**Test Method:** BV In House Method – GSO 142/2010

**Tested Item(s)** : I001 Black & Grey Enamel Plate  
**Sample A**

Test Item	Req.	Results	Conclusion
A	0.4mm thickness feeler gauge shall not be able to insert at any point between the base of the sample and the flat surface upon which it is placed.	MEET	<b>PASS</b>

N/A: Not Applicable





## TEST RESULTS

### RESISTANCE TO DRY HEATING

**Test Method:** BV In House Method - GSO 142/2010

**Tested Item(s)** : I001 Black & Grey Enamel Plate

**Sample A**

<b>Test Item</b>	<b>Req.</b>	<b>Results</b>	<b>Conclusion</b>
A	No cracks shall be developed in the sample, and no marks or any other defects shall show at the surface that will impair its appearance or serviceability after placed in an air circulating oven at a temperature of $75\pm 3^{\circ}\text{C}$ for 8 h then removed and allowed to cool. Any decrease in capacity shall not exceed 4% of the actual capacity (original).	No any aesthetic deformation has been observed.	<b>PASS</b>

### RESISTANCE TO LOW TEMPERATURE

**Test Method:** GSO 142/2010

**Tested Item(s)** : I001 Black & Grey Enamel Plate

**Sample A**

<b>Test Item</b>	<b>Req.</b>	<b>Results</b>	<b>Conclusion</b>
A	The sample shall not break or develop cracks when subjected to a temperature between $0^{\circ}\text{C}$ and $7^{\circ}\text{C}$ for 24h continuously.	No any aesthetic deformation has been observed.	<b>PASS</b>

**APPENDIX A**

**Table (1)**  
**Plates of Various Types**

<b>Area cm<sup>2</sup></b>	<b>Maximum Depth mm</b>	<b>Minimum Thickness mm</b>
65	38	2.0
260	38	2.5
580	38	3.2
780	38	3.6

**Table (2)**  
**Other Table Ware like cups**

<b>Area Cm<sup>2</sup></b>	<b>Minimum Depth mm</b>	<b>Minimum Thickness mm</b>
113	38	2.25
170	38	2.50
260	38	3.20
570	38	4.00

For articles having areas between those given in both Tables, the thickness shall be calculated proportionately.

**APPENDIX B****Handles**

In order to avoid knit lines and similar defects it is essential that the handles shall have a uniform cross section as possible. The average handle thickness shall not exceed 1 ½ times the wall thickness except where the handle joins to the product body, and the maximum area of the cross section of the handle shall be 10 times the square value of the wall thickness.

**-END OF REPORT-**