

**TEST REPORT NUMBER:** PRTH00095586 Page 1 of 8  
**APPLICANT:** MATCERAMICA-FABRICO DE LOUÇA , S.A. **DATE OF EMISSION:** 10/03/2022  
APARTADO 150  
OUTEIRO DO SEIXO - VALE DE OURÉM

**For the attention of ANA MARQUES**

**SAMPLE DESCRIPTION:** PEDIDO 645  
PO 220161  
1 - BREAKFAST BOWLS DOVE GRAY G567=TAÇA CEREAL 16,5 (CARIMBO)  
MATÉRIA CINZENTO SEMI-MATE G0567  
REF.: BFT-DG-G7808G0567  
GRES  
**DATE OF RECEPTION:** 08/03/2022  
**TEST PERFORMED BETWEEN DATES:** 08/03/2022 and 10/03/2022  
**WORK DAYS:** 3  
**REQUEST:** Tests performed in accordance with APPLICANT TEST REQUEST specification  
**NOTES:** FABLE HOME GOODS

**Samples**

Test	1
* Dishwasher Safe	M
Extractable lead & cadmium	M
* Freezer Safe	M
* Impact testing of hollowware - rim	M
* Microwave Safe	M
Thermal Shock	M

M = Meet buyer's requirement; NM = does not meet buyer's requirement; NR = Not requested; NA = Not applicable; NC = No comment; SC = Still continues

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Test Method	Results	Requirements
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**\* Dishwasher Safe**

ITS-M0001

Sample: 1  
Test conditions

Shall exhibit no discoloration, rusting, or surface degradation.

Detergent: 107  
Rinse aid: 51  
Washing cycles: 10  
Mass of detergent: 25 g  
Washing cycle characteristics: 1  
Nº of tested specimens: 3

No apparent changes

**Extractable lead & cadmium**

SOP 201: 2017-09-28 (Method equivalent to ASTM C738: 94 (2016))

Sample: 1

Specimen	Cadmium(Cd) (mg/L)	Lead(Pb) (mg/L)
1	<0,04	<0,1
2	<0,04	<0,1
3	<0,04	<0,1
4	<0,04	<0,1
5	<0,04	<0,1
6	<0,04	<0,1

FDA	
Limits (mg/L)	
Pb	
Flatware	3.0
Small Holloware	2.0
Large Holloware	1.0
Cups & Mugs	0.5
Pitchers	0.5
Cd	
Flatware	0.5
Small Holloware	0.5
Large Holloware	0.25
Cups & Mugs	0.5
Pitchers	0.25

Sample Capacity: 730 mL  
Sample Category: Small Holloware

Quantification limit: Pb:0,1mg/L; Cd:0,04 mg/L  
< = Less than

Proposition 65	
Limits (mg/L)	
Pb	
Flatware	0.226
Small Holloware	0.1
Large Holloware	0.1
Cups & Mugs	0.1
Pitchers	0.1



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Sample: 1

Cd  
Flatware 1.8532  
Small Holloware 0.1886  
Large Holloware 0.0492  
Cups & Mugs 0.0492  
Pitchers 0.0492

Uncertainty: Cadmium(Cd)  $\pm 15\%$  of value; Lead(Pb)  $\pm 25\%$  of value

**\* Freezer Safe**

ITS-M0004

Sample: 1

Shall exhibit no damage and noticeable change.

Freezer Safe

Test conditions

Freezer temperature:  $-20,4^{\circ}\text{C}$

Freezer time contact: 24 h

Room temperature:  $20,2^{\circ}\text{C}$

Nº of tested specimens: 1

No apparent changes

**\* Impact testing of hollowware - rim**

BS EN 12980:2000

Sample: 1

The impact energy to produce failure on ceramic ware and glass ware shall not be less than 0.05 J (0.04 ft-lbf) when the flatware and hollowware (consisting of cups, mugs, ovenware or vases) are impact tested at the rim.

Test conditions:

Nº of tested articles: 10

Testing plan: b

IMPACT RESISTANCE ON RIM



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Sample: 1

The impact energy to produce failure on ceramic ware and glass ware shall not be less than 0.05 J (0.04 ft-lbf) when the flatware and hollowware (consisting of cups, mugs, ovenware or vases) are impact tested at the rim.

	Energy (J)	Height (m)	Angular (°)	Energy (ft,lbf)	Length of pendulum (m)	Pendulum (Kg)
1	0,086	0,088	45	0,064		
2	0,086	0,088	45	0,064		
3	0,069	0,070	40	0,051		
4	0,086	0,088	45	0,064		
5	0,086	0,088	45	0,064	0,300	0,100
6	0,069	0,070	40	0,051		
7	0,069	0,070	40	0,051		
8	0,105	0,107	50	0,078		
9	0,105	0,107	50	0,078		
10	0,086	0,088	45	0,064		

Average 0,085 0,086

**\* Microwave Safe**

ITS-M0002

Sample: 1

Test conditions:

Sample volume: 730 mL  
Water volume: 580 mL  
Grip zone: sidewall  
Microwave power: 750 w  
Test time: 5 minutes  
Nº of tested specimens:1

Shall exhibit no damage & noticeable change.

All tested samples at any spot should not reach temperature more than 60 °C.



Sample: 1

Shall exhibit no damage & noticeable change.  
All tested samples at any spot should not reach temperature more than 60 °C.

Cycle (°C)	Water temperature (°C)	Temperature
1	20,4	40,8
2	20,6	39,7
3	21,4	40,2
4	20,7	38,3
5	21,1	39,1
6	20,5	37,4

No apparent changes

### Thermal Shock

BS EN 1183: 1997 - METHOD B

Sample: 1

Time of thermal equilibrium: 60 min

Nr. of samples tested: 10

For ceramic ware and glass ware:  
- Oven ware: Temperature difference shall not be less than 302 °F (150 °C);  
- Not Oven ware: Temperature difference shall not less than 194 °F (90°C).

T1(°C)	T2(°C)	T1-T2(°C)	Nº of failures at T1	Cumulative failures (%)
120	20	100	0	0
140	20	120	0	0
160	20	140	0	0
180	20	160	0	0
200	20	180	0	0
220	20	200	0	0
240	20	220	0	0



			Sample:	1	
260	20	240	1	10	
			1	10	

For ceramic ware and glass ware:  
- Oven ware: Temperature difference shall not be less than 302 °F (150 °C);  
- Not Oven ware: Temperature difference shall not be less than 194 °F (90 °C).

Thermal Shock endurance

$\Delta t_{50}$  (temperature difference at which 50% of the samples have failed) > 240 °C

S (Standard Deviation) = 0

Conclusion: Based on the testes concluded the article should resist thermal shock until a temperature of > 240 °C.

