

TEST REPORT NUMBER: PRTH00095590
APPLICANT: MATCERAMICA-FABRICO DE LOUÇA , S.A.
APARTADO 150
OUTEIRO DO SEIXO - VALE DE OURÉM

Page 1 of 8

DATE OF EMISSION: 10/03/2022

For the attention of ANA MARQUES

SAMPLE DESCRIPTION: PEDIDO 647
PO 220161
1 - BREAKFAST BOWLS MIDNIGHT BLUE G587=TAÇA CEREAL 16,5 (CARIMBO)
MATÉRIA AZUL SEMI-MATE G0578
REF.: BFT-NB-G7808G0578
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 REPORT NUMBER: PRT00095590

Page 2 of 8



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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: 750 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



TEST REPORT NUMBER: PRT00095590

Page 4 of 8

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°C
Freezer time contact: 24 h
Room temperature: 20,2°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	0,053	0,054	35	0,039		
4	0,086	0,088	45	0,064		
5	0,086	0,088	45	0,064	0,300	0,100
6	0,105	0,107	50	0,078		
7	0,086	0,088	45	0,064		
8	0,069	0,070	40	0,051		
9	0,086	0,088	45	0,064		
10	0,069	0,070	40	0,051		

Average 0,081 0,083

*** Microwave Safe**

ITS-M0002

Sample: 1

Test conditions:

Sample volume: 750 mL
Water volume: 600 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	45,3
2	21,2	44,4
3	20,3	45,1
4	21,4	44,3
5	20,6	42,8
6	20,1	44,6

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



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			Sample:	1	
260	20	240	0	0	
			0	0	

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

Δt_{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.



