

TEST REPORT NUMBER: PRTH00096018 Page 1 of 8
 APPLICANT: MATCERAMICA-FABRICO DE LOUÇA , S.A. DATE OF EMISSION: 25/03/2022
 APARTADO 150
 OUTEIRO DO SEIXO - VALE DE OURÉM

For the attention of ANA MARQUES

SAMPLE DESCRIPTION: PEDIDO 675
 PO 220069
 1 - SALAD PLATE SEMI MATTE SPECKLED WHITE G0531=PRATO SOBREMESA 22
 (CARIMBO) MATÉRIA BRANC SEMI-MATE C/PINTAS G0531
 REF.: SID-SM-G7880G0531
 GRES

DATE OF RECEPTION: 23/03/2022

TEST PERFORMED BETWEEN DATES: 23/03/2022 and 25/03/2022

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

Detergent: 108
Rinse aid: 51
Washing cycles: 10
Mass of detergent: 25 g
Washing cycle characteristics: 1
Nº of tested specimens: 3

No apparent changes

Shall exhibit no discoloration, rusting, or surface degradation.

Extractable lead & cadmium

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

Specimen	Cadmium(Cd) (mg/L)	Lead(Pb) (mg/L)	FDA Limits (mg/L)
1	<0,04	<0,1	Pb Flatware 3.0 Small Holloware 2.0 Large Holloware 1.0 Cups & Mugs 0.5 Pitchers 0.5
2	<0,04	<0,1	
3	<0,04	<0,1	
4	<0,04	<0,1	
5	<0,04	<0,1	Cd Flatware 0.5 Small Holloware 0.5 Large Holloware 0.25 Cups & Mugs 0.5 Pitchers 0.25
6	<0,04	<0,1	

Sample Capacity: 360 mL
Sample Category: Flatware

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

Freezer Safe

Sample: 1
Test conditions

Shall exhibit no damage and noticeable change.

Freezer temperature: $-20,7^{\circ}\text{C}$
Freezer time contact: 24 h
Room temperature: $20,4^{\circ}\text{C}$
Nº of tested specimens: 1

No apparent changes

*** Impact testing of holloware - rim**

BS EN 12980:2000

Test conditions:

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 holloware (consisting of cups, mugs, ovenware or vases) are impact tested at the rim.

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	0,053	0,054	35	0,039		
2	0,039	0,040	30	0,029		
3	0,053	0,054	35	0,039		
4	0,039	0,040	30	0,029		
5	0,053	0,054	35	0,039	0,300	0,100
6	0,039	0,040	30	0,029		
7	0,053	0,054	35	0,039		
8	0,053	0,054	35	0,039		
9	0,069	0,070	40	0,051		
10	0,069	0,070	40	0,051		

Average 0,052 0,053

*** Microwave Safe**

ITS-M0002

Sample: 1

Test conditions:

Sample volume: 360 mL
Water volume: 290 mL
Grip zone: rim
Microwave power: 750 w
Test time: 5 minutes

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



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Sample: 1
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.

Cycle (°C)	Water temperature (°C)	Temperature
1	20,2	43,5
2	20,4	42,7
3	20,2	44,3
4	20,6	43,2
5	21,2	42,9
6	20,7	43,1

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



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			Sample:	1	
220	20	200	0	0	
240	20	220	5	50	
			5	50	

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).

Thermal Shock endurance

Δt_{50} (temperature difference at which 50% of the samples have failed) 220 °C

S (Standard Deviation) = 0

Conclusion: Based on the testes concluded the article should resist thermal shock until a temperature of 220 °C.

