

TEST REPORT NUMBER: PRTH00096593 Page 1 of 8
APPLICANT: MATCERAMICA-FABRICO DE LOUÇA , S.A. **DATE OF EMISSION:** 13/04/2022
 APARTADO 150
 OUTEIRO DO SEIXO - VALE DE OURÉM

For the attention of ANA MARQUES

SAMPLE DESCRIPTION: PEDIDO 664
 PO 220019
 1 - SALAD PLATE CLOUD WHITE G629=PRATO SOBREMESA 22(CARIMBO)
 MATÉRIA BRANCO SEMI-MATE G0629
 REF.: SID-WH-G7880G0629
 GRES
DATE OF RECEPTION: 11/04/2022
TEST PERFORMED BETWEEN DATES: 11/04/2022 and 13/04/2022
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 |
|-------------|---------|--------------|
|-------------|---------|--------------|

*** Dishwasher Safe**

ITS-M0001

Sample: 1
Test conditions

Shall exhibit no discoloration, rusting, or surface degradation.

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

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: 290 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

Sample: 1

Shall exhibit no damage and noticeable change.

Freezer Safe

Test conditions

Freezer temperature: $-19,7^{\circ}\text{C}$

Freezer time contact: 24 h

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

N^o 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:

N^o 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 | 0,105 | 0,107 | 50 | 0,078 | | |
| 3 | 0,125 | 0,128 | 55 | 0,093 | | |
| 4 | 0,105 | 0,107 | 50 | 0,078 | | |
| 5 | 0,086 | 0,088 | 45 | 0,064 | 0,300 | 0,100 |
| 6 | 0,105 | 0,107 | 50 | 0,078 | | |
| 7 | 0,105 | 0,107 | 50 | 0,078 | | |
| 8 | 0,125 | 0,128 | 55 | 0,093 | | |
| 9 | 0,069 | 0,070 | 40 | 0,051 | | |
| 10 | 0,086 | 0,088 | 45 | 0,064 | | |

Average 0,100 0,074

*** Microwave Safe**

ITS-M0002

Sample: 1

Test conditions:

Sample volume: 290 mL
Water volume: 230 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 | 20,4 | 40,3 |
| 2 | 20,2 | 39,1 |
| 3 | 20,2 | 38,2 |
| 4 | 20,1 | 40,1 |
| 5 | 20,4 | 39,3 |
| 6 | 20,2 | 38,7 |

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 | 3 | 30 |



| | | | | | |
|-----|----|-----|---------|----|--|
| | | | Sample: | 1 | |
| 220 | 20 | 200 | 3 | 60 | |
| | | | 6 | 60 | |

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) 200 °C
S (Standard Deviation) = 11,0

Conclusion: Based on the testes concluded the article should resist thermal shock until a temperature of 200 °C.

