**TEST REPORT NUMBER:** PRTH00096500 

**APPLICANT:** MATCERAMICA-FABRICO DE LOUÇA , S.A. **DATE OF EMISSION:** 08/04/2022

APARTADO 150

OUTEIRO DO SEIXO - VALE DE OURÉM

**For the attention of ANA MARQUES**

**SAMPLE DESCRIPTION:** PEDIDO 651
PO 220069
1 - CARAFE MIDNIGHT BLUE G578=GARRAFA (CARIMBO) MATÉRIA AZUL SEMI-MATE G0578
REF.: CAR-NB-G8369G0578
GRES

**DATE OF RECEPTION:** 06/04/2022

**TEST PERFORMED BETWEEN DATES:** 06/04/2022 and 08/04/2022

**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 | NA |
| 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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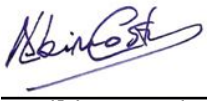

Hardlines and Chemistry Laboratory Manager
albino.costa@intertek.com

| Test Method | Results | Requirements |
|---|---|---|

*** Dishwasher Safe**

ITS-M0001

Sample: 1

Shall exhibit no discoloration, rusting, or surface degradation.

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

**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 |

Sample Capacity: 950 mL
Sample Category: Pitchers

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

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 |

Proposition 65

Limits (mg/L)

| | Pb |
|---|---|
| Flatware | 0.226 |
| Small Holloware | 0.1 |
| Large Holloware | 0.1 |
| Cups & Mugs | 0.1 |
| Pitchers | 0.1 |

Sample: 1

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

Uncertainty: Cadmium(Cd) ±15% of value; Lead(Pb) ±25% of value

## * Freezer Safe

ITS-M0004

Sample: 1

Shall exhibit no damage and noticeable change.

Freezer Safe

Test conditions

Freezer temperature: -20,4ºC
Freezer time contact: 24 h
Room temperature: 21,2ºC
Nºof 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

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 (º) | Energy (ft,lbf) | Length of pendulum (m) | Pendulum (Kg) |
|---|---|---|---|---|---|---|
| 1 | 0,069 | 0,070 | 40 | 0,051 | | |
| 2 | 0,147 | 0,150 | 60 | 0,109 | | |
| 3 | 0,086 | 0,088 | 45 | 0,074 | | |
| 4 | 0,069 | 0,070 | 40 | 0,051 | | |
| 5 | 0,086 | 0,088 | 45 | 0,074 | 0,300 | 0,100 |
| 6 | 0,125 | 0,128 | 55 | 0,093 | | |
| 7 | 0,105 | 0,107 | 50 | 0,078 | | |
| 8 | 0,105 | 0,107 | 50 | 0,078 | | |
| 9 | 0,105 | 0,107 | 50 | 0,078 | | |
| 10 | 0,069 | 0,070 | 40 | 0,051 | | |
| Average | 0,097 | 0,099 | | | | |

## Thermal Shock

BS EN 1183: 1997 - METHOD B

Sample: 1

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

Time of thermal equilibrium: 60 min

Nr. of samples tested: 10

| T1(ºC) | T2(ºC) | T1-T2(ºC) | Nº of failures at T1 | Cumulative failures (%) |
|---|---|---|---|---|

| | | | Sample: 1 | |
|---|---|---|---|---|
| 120 | 20 | 100 | 0 | 0 |
| 140 | 20 | 120 | 0 | 0 |
| 160 | 20 | 140 | 0 | 0 |
| 180 | 20 | 160 | 9 | 90 |
| | | | 9 | 90 |

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

Thermal Shock endurance

Δt50 (temperature difference at which 50% of the samples have failed) 160 ºC

S (Standard Deviation) = 0

Conclusion: Based on the testes concluded the article should resist thermal shock until a temperature of 160 ºC.

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