

TEST REPORT NUMBER: PRTH00095943 Page 1 of 7
APPLICANT: MATCERAMICA-FABRICO DE LOUÇA , S.A. **DATE OF EMISSION:** 23/03/2022
APARTADO 150
OUTEIRO DO SEIXO - VALE DE OURÉM

For the attention of ANA MARQUES

SAMPLE DESCRIPTION: PO 220069
PEDIDO 650
1 - CAREFE BLUSH PINK G530=GARRAFA (CARIMBO) MATÉRIA ROSA SEMI-MATE G0530
REF.: CAR-BP-G8369G0530
DATE OF RECEPTION: GRES
21/03/2022
TEST PERFORMED BETWEEN DATES: 21/03/2022 and 23/03/2022
WORK DAYS: 3
REQUEST: Tests performed in accordance with APPLICANT TEST REQUEST specification
NOTES:

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

- The report is made on the basis of instructions and/ or information and materials supplied. Sample information is supplied by the customer. Results and observations are only valid for the samples that were submitted.
- Partial reproduction of this report is not allowed without written approval of Intertek Portugal.
- On declaration of compliance or not compliance with the specification, uncertainty associated to the result was not explicitly taken into account. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2 providing a level of confidence of approximately 95% and doesn't include the sampling component due it exceeds laboratory responsibility.
- Tests marked by (*) are not included in the scope of IPAC accreditation for Intertek Portugal.
- Tests marked by (‡) were performed by an approved third-party subcontractor laboratory, and are not included in the scope of IPAC accreditation.

All services provided by Intertek Portugal are subject to the 'Terms and Conditions', available on the official website at the address <http://www.intertek.pt/termos-e-condicoes/> unless there is a different written agreement, between Intertek Portugal - Intertek and the customer.



INTERTEK PORTUGAL UNIPessoal, LDA.

Rua Antero de Quental, 221- sala 102, 4455-586 Perafita - Matosinhos
Tel. (+351) 220 600 343

TEST REPORT NUMBER: PRT00095943

Page 2 of 7



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



INTERTEK PORTUGAL UNIPessoAL, LDA.

Rua Antero de Quental, 221- sala 102, 4455-586 Perafita - Matosinhos
Tel. (+351) 220 600 343

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

*** Dishwasher Safe**

ITS-M0001

Sample: 1
Test conditions

Shall exhibit no discoloration, rusting, or surface degradation.

Detergent: 107 and 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: 880 mL
Sample Category: Pitchers

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



INTERTEK PORTUGAL UNIPessoal, LDA.

Rua Antero de Quental, 221- sala 102, 4455-586 Perafita - Matosinhos
Tel. (+351) 220 600 343

TEST REPORT NUMBER: PRT00095943

Page 4 of 7

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: $-20,7^{\circ}\text{C}$

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



INTERTEK PORTUGAL UNIPessoal, LDA.

Rua Antero de Quental, 221- sala 102, 4455-586 Perafita - Matosinhos
Tel. (+351) 220 600 343

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	0,053	0,054	35	0,039		
3	0,053	0,054	35	0,039		
4	0,053	0,054	35	0,039		
5	0,053	0,054	35	0,039	0,300	0,100
6	0,053	0,054	35	0,039		
7	0,053	0,054	35	0,039		
8	0,053	0,054	35	0,039		
9	0,053	0,054	35	0,039		
10	0,053	0,054	35	0,039		

Average 0,053 0,054

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 be less than 194 °F (90°C).

T1(°C)	T2(°C)	T1-T2(°C)	Nº of failures at T1	Cumulative failures (%)



INTERTEK PORTUGAL UNIPessoal, LDA.

Rua Antero de Quental, 221- sala 102, 4455-586 Perafita - Matosinhos
 Tel. (+351) 220 600 343

			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 °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) 160 °C

S (Standard Deviation) = 0

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



