TEST REPORT NUMBER: PRTH00096436

APPLICANT: MATCERAMICA-FABRICO DE LOUÇA , S.A.

APARTADO 150

OUTEIRO DO SEIXO - VALE DE OURÉM

DATE OF EMISSION: 06/04/2022

For the attention of ANA MARQUES

SAMPLE DESCRIPTION: PEDIDO 652
1 - THE LARGE CANDLE HOLDERS SEMI MATTE SPECKLED WHITE G531=SUPORTE VELA 12 (CARIMBO) MATÉRIA SEMI.MATE C/ PINTAS G0531
REF.: CHL-SM-G8444G0531
GRES

DATE OF RECEPTION: 05/04/2022

TEST PERFORMED BETWEEN DATES: 05/04/2022 and 06/04/2022

WORK DAYS: 2

REQUEST: Tests performed in accordance with APPLICANT TEST REQUEST specification

NOTES: FABLE HOME GOODS

Samples

Test	1
* Dishwasher Safe	M
Extractable lead & cadmium	M
* Impact testing of hollowware - rim	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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- 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.

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: 60 mL
Sample Category: Flatware

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

* 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

	Energy (J)	Height (m)	Angular (º)	Energy (ft,lbf)	Length of pendulum (m)	Pendulum (Kg)
1	0,069	0,070	40	0,051		
2	0,086	0,088	45	0,064		
3	0,086	0,088	45	0,064		
4	0,053	0,054	35	0,039		
5	0,053	0,054	35	0,039	0,300	0,100
6	0,069	0,070	40	0,051		
7	0,086	0,088	45	0,064		
8	0,086	0,088	45	0,064		
9	0,053	0,054	35	0,039		
10	0,069	0,070	40	0,051		
Average	0,071	0,072				

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.

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 (%)
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	5	50
			5	50

Thermal Shock endurance

Δt50 (temperature difference at which 50% of the samples have failed) 200 ºC
S (Standard Deviation) = 0

Conclusion: Based on the testes concluded the article should resist thermal

Sample: 1

shock until a temperature of 200 ºC.

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).

INTERTEK PORTUGAL UNIPESSOAL, LDA.

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