

TEST REPORT

Report No.WTF22F05097236CApplicantMid Ocean Brands B.V.

Kowloon, Hong Kong

Manufacturer : 112213

Sample Name : Glass candle holder, Set of 2 glass candle holder

Sample Model : CX1508, CX1509

accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and

(EU) 2015/628

2) Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No.494/2011, No.835/2012 and (EU)2016/217

3) Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No.1907/2006 & Amendment No.552/2009 & No. 2018/2005

4) As specified by client, determination of the free and hydrolysed formaldehyde content in submitted sample

5) As specified by client, to determine the Pentachlorophenol and its salts and esters (PCP) content in the submitted sample with reference to Regulation (EU)2019/1021 and its amendment(EU)2020/784&(EU)2020/1203&

(EU)2020/1204& (EU)2021/115&(EU)2021/277.

6) BS EN 15426:2018 Candles-specification for sooting

behavior

7) BS EN 15494:2019 Candles. Product safety labels

8) BS EN 15493:2019 Candles. Specification for fire safety

Test Conclusion : Refer to next page (s)

Date of Receipt sample 2022-05-17

Testing period...... : 2022-05-17 to 2022-05-25

Date of Issue 2022-05-27

Test Result : Refer to next page (s)

Note...... : As specified by client, only test the designated sample.

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Signed for and on behalf of

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Sample photo:



WATER ER



Test Results:

1) Lead (Pb)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

That Ham	LOQ	,	Results	s (mg/kg)	TEN MITE	Limit
Test Item	em (mg/kg)	No.1	No.2	No.3	No.4	(mg/kg)
Lead(Pb)	2	ND	ND	ND	ND	500
Conclusion	RLIE STREET	Pass	Pass	Pass	Pass	et jet

Table Ham Wall	LOQ	Results (m	ıg/kg)	Limit	
Test Item (mg/kg)		No.5+No.6+No.8	No.7	(mg/kg)	
Lead(Pb)	2	21*	ND ND	500	
Conclusion	MITE WILL	Pass	Pass	CENT TENT	

Task Ham	LOQ	Results	(mg/kg)	Limit
Test Item	(mg/kg)	No.9	No.10	(mg/kg)
Lead(Pb)	2	ND/ ND/	ND ND	500
Conclusion	ti lun - lun -	Pass	Pass	TEX TITEL

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
- (5) "*" = Results are calculated by the minimum weight of mixed components.



2) Cadmium (Cd)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Tariff and	LOQ	Mury Aug. M.	Results (mg/kg)	LEK LEK LIEK
Test Item	(mg/kg)	No.2	No.3	No.4
Cadmium(Cd)	2	ND	ND	h ND
Conclusion	A - A	Pass	Pass	Pass

Took Home Still Still		LOQ	Results (mg/kg)			
Test Item	4,	(mg/kg)	No.5+No.6+No.8	No.7	No.9	No.10
Cadmium(Cd)	WITE.	July 2 July	ND*	ND	- ND	ND
Conclusion		14- 16th	Pass	Pass	Pass	Pass

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

Category	Limit (mg/kg)
Wet paint	100
Surface coating	1000
Plastic	100
Metal parts of jewellery and hair accessories	100

(5) "*" = Results are calculated by the minimum weight of mixed components.



3) Phthalates

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Items	LOQ	Results (%)		Limit
	(%)	No.2	No.3	(%)
Benzyl butyl phthalate (BBP)	0.005	ND	ND	- 14 24
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	ND J	sum of four
Dibutyl phthalate (DBP)	0.005	ND	ND	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND	ND W	Mrr My
Diisodecyl phthalate (DIDP)	0.01	ND	ND ND	A CHIEF WILLES
Diisononyl phthalate (DINP)	0.01	ND	ND	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND ND	ND	primalates v 0.1
Conclusion	10 100	Pass	Pass	et set sil

Test Items	LOQ (%)	Results (%) No.5+No.6+No.8	Limit (%)
Benzyl butyl phthalate (BBP)	0.005	ND* ITEM	William Muli Mul
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	sum of four
Dibutyl phthalate (DBP)	0.005	Intil ND*	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND*	INLIE WALTER WALTER
Diisodecyl phthalate (DIDP)	0.01	ND*	at alt let
Diisononyl phthalate (DINP)	0.01	ND* while was	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND*	pritrialates < 0.1
Conclusion	- The State	Pass	144 14



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Test Items	LOQ	Results (%)		Limit	
	(%)	No.7	No.10	(%)	
Benzyl butyl phthalate (BBP)	0.005	ND	ND	TEK STEK .	
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND ND	ND	sum of four	
Dibutyl phthalate (DBP)	0.005	ND	ND	phthalates < 0.1	
Diisobutyl phthalate (DIBP)	0.005	ND	ND	CA TEK TEK	
Diisodecyl phthalate (DIDP)	0.01	- ND	ND	The sail	
Diisononyl phthalate (DINP)	0.01	ND	ND ND	sum of three phthalates < 0.1	
Di-n-octyl phthalate (DNOP)	0.005	ND	ND		
Conclusion		Pass	Pass	With Wer Mr.	

Note:

DBP= Dibutyl phthalate
DINP= Di-isononyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate

- (1) % = percentage by weight
- (2) ND = Not Detected or lower than limit of quantitation
- (3) LOQ = Limit of quantitation
- (4) "<" = less than
- (5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005 (formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.
- (6) "*" = Results are calculated by the minimum weight of mixed components.



4) Formaldehyde

Test Method: With reference to EN717-3:1996, analysis was performed by UV-VIS

- it let let	The Will Mi	Result		Client's
Test Item	Unit	No.7	LOQ	Limit
Formaldehyde (CH ₂ O)	mg/kg	uni un ND	10	80
Conclusion	- A-	Pass	mer the	111, - 11

Note:

- ND = Not Detected or lower than limit of quantitation
- mg/kg =milligram per kilogram=ppm
- LOQ = Limit of quantitation





5) Pentachlorophenol(PCP)

Test Method: With reference to ISO 17070: 2015, analysis was performed by GC-MS

Substance Names	Result (mg/kg)	Limit (mg/kg)	LOQ (mg/kg)
Pentachlorophenol and its salts and esters (PCP)	EL WINT ND WILLE	≤ 5mg/kg in substances, mixtures or articles	5 5
Conclusion	Pass	UTIL MUTI MUTICALITY	10. 70.

Description for Specimen:

No.1: Transparent glass cup

No.2: White candle wick

No.3: Green candle

No.4: Brown grass rope

No.5: Green plastic leaf

No.6: Green plastic leaf

No.7: Brown wood cone

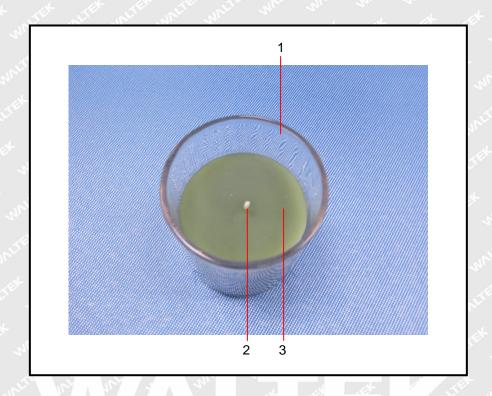
No.8: Light green plastic leaf

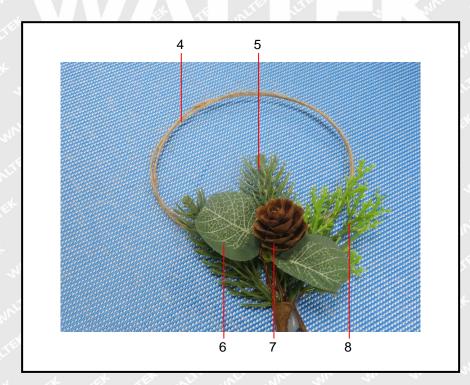
No.9: Brown paper sheet

No.10: Transparent glue



Photograph of parts tested:











6) Soot release (BS EN 15426:2018)

Test standard:	BS EN 15426:2018 Candles-specification for sooting behavior
Number of sample(s) tested:	3 pieces of container candle
Initial observation:	No visible defects was found on all tested samples
Test requirement:	The average soot index from three tests (samples) shall be less than 1.0/hour.
Test Conclusion:	Pass

Tested sample	A1 ()	A2	A3
Original candle diameter (mm)	Ø65.23	Ø65.14	Ø65.30
Original candle height (mm)	79.69	79.67	79.51
Net candle weight(g)	118.8	116.3	118.3
Total measuring time, t _m (hours)	8	8	18 M
Soot index,Si	0.51	0.61	0.62
Average soot index per hour, Si _h (=Si/t _m)	0.06	0.08	0.08
Average soot inde from 3 samples Note: acceptance criteria: <1.0/hour	LIEK WILLEK WILLE V	0.07	et let let

Tested sample	B1	B2	B3
Original candle diameter (mm)	Ø50.23	Ø50.41	Ø50.29
Original candle height (mm)	67.03	68.93	67.05
Net candle weight(g)	55.7	54.6	56.5
Total measuring time, t _m (hours)	8	J 8 J 1	1 N 8 W
Soot index,Si	0.45	0.54	0.48
Average soot index per hour, Si _h (=Si/t _m)	0.06	0.07	0.06
Average soot inde from 3 samples Note: acceptance criteria: <1.0/hour	Et It WILL S	0.07	t the stiff of



7) Candle Fire safety labelling (BS EN 15494:2019)

Test standard:	BS EN 15494:2019 Candles-Product Safety Labels
Number of sample(s) tested:	One set product with full packaging
Test Conclusion:	Pass of the first

Claus	Requirement	Result	Doting
е	with with whi had any in the	1&2	Rating
A.2 A A A A A A A A A A A A A A A A A A	Layout of the product safety label The product safety label for candles consists of the following components: general warning sign based upon ISO 7010- W001 (see Figure 1). mandatory supplementary safety information symbols or texts (see Tables 1 to 3). optional supplementary safety information symbols or texts (See Annex A). The supplementary safety information symbols or texts shall be placed in close proximity to the general warning sign below and/or to the right beside the general warning sign (see Figure 2). Borders are optional. All components of the product safety label shall be in distinct contrast from its background. For candle labels made with one-colour printing, the background colour of the general warning sign does not need to be yellow. Figure 1 – General warning sign Figure 2 – examples of layouts of a product safety label for candles	See Test Data Safety information beside the general warning sign	The white wh
100 100 100 100 100 100 100 100 100 100	Layout of supplementary safety information If safety information texts are chosen rather than safety information symbols then they or their practical equivalents shall be given in their own national language or languages of the country in which the candles are marketed.	The height of the safety symbols:6.0mm	PASS



LIEK WA	The supplementary safety symbols and text shall be reproduced as shown in Tables 1 to 3 and Tables A. 1 to A. 5. However, some degree of modification is permitted when cultural differences or special application formats (e.g. candle shape/type) need to be considered, provided the original meaning is retained and comprehension of the safety information is maintained.	JEK WHITEK WHITEK	Mirek whitek whitek
WILLER M	The minimum height of the safety symbols is 5 mm provided that the content of the safety message is legible due to the quality of the print.	LIEF MULTER WALTER	MALTER WALTER WA
TEE WILL	Display of a product safety label As a minimum the product safety label with the mandatory supplementary safety information (Tables 1 to 3) shall be visible and legible on the packaging or product.	EX WHITEX WHITEX W	EX MULEX MULEX
4.4	If the space is limited, the optional supplementary safety information can be placed elsewhere, e.g. on the backside of a peel-off label or the inner sides of a fold-out label, together with the mandatory supplementary safety information repeated. There shall be clear indication where to find this additional safety information.	Safety labels on packaging	PASS



Test data:

l est data: In the form of symbol	In the form of Text	Finding			
Table 1- mandatory supplementary safety	information	10, 10, 1,			
	Never leave a burning candle unattended.	In Symbol Present			
	Keep away from things that can catch fire.	In Symbol Present			
	Keep away from children and pets.	In Symbol Present			
Table 2 – additional mandatory s	upplementary safety information -specific for cert	ain candles types			
Marter and the State and the S	Use a heat resistant candleholder.	In Symbol Present			
Table 3 –additional mandator	y supplementary safety information –specific for fl	oating candles			
	Use in a suitable bowl filled with water	Not Present			
Table A.1 – optional supplementary safety information					
JUNITER JUNITE	Keep candles at least x cm apart. Note: X represents the minimum safety distance between candles and is defined by the manufacturer.	Text Form Present			



	Do not burn in a draught.	Not Present
	Do not place near a heat source.	Not Present
	Place candle upright.	Not Present
1 xcm xcm	Trim wick to x cm. Note: x represents the maximum length of the wick and is defined by the manufacturer.	No Present
	Snuff out the flame. Do not blow it out.	No Present
	Keep wax pool clear of matches and debris.	Not Present
	Do not move a burning candle.	No Present



	Never use liquid to extinguish.	Not Present
	Remove packaging before use.	Text Form Present
White white white white white white	Trim edge if higher than x cm. Note: x represents the maximum length of the wick and is defined by the manufacturer.	Not Present
Table A.2 – additional option	nal supplementary safety information – specific	for tea light
	Only use in holders and warning stoves with sufficient ventilation.	Not Present
Table A.3 – additional optional	supplementary safety information - specific for	votive candles
	This candle liquefies, use a suitable container.	Not Present
Table A.4 – additional optional s	upplementary safety information – specific for co	ontainer candles
	Do not touch, may be hot.	Not Present
Table A.5 – Additional optional supplement	entary safety information – specific for candles no	ot appropriate to use ir

warming unit, e.g. scented tea lights





Do not burn in a warming unit.

Not Present



8) Burning safety (BS EN 15493:2019)

Test standard:	BS EN 15493:2019 Candles. Specification for fire safety	
Number of sample(s) tested:	3 pieces of candle for testing	
Instruction label	Provided	
Burn test cycle Burn candle 4 hours, pause for minimum 1 hour. Continue to burn in cycles until self-extinguishing.		
Test Conclusion:	Pass	

Clause	Requirement	Result
4.1	Stability —Freestanding candles, container candles and candles that are sold together with a holder or other accessories shall not tip over when tested on a slope of (10 ± 0.2)°.	PASS
4.2	Secondary ignition No secondary ignition shall occur for more than 10s	PASS
4.3	Flame height Maximum 75 mm for all candles except tea lights Maximum 30 mm for tea lights	PASS
MALITER WALLES	Self-extinguishing To prevent the ignition of the surface underneath, freestanding candles marketed as self-extinguishing shall self-extinguish at the end of the burning time. The candles shall neither burn a paper placed underneath nor cause any scorch marks on it during the whole burning test. To prevent the ignition or cracking of a supporting holder, non- freestanding candles marketed as self-extinguishing shall self- extinguish at a residual height of ≥ 12 mm in case of candles with a diameter of ≤ 14 mm and at a residual height of ≥ 18 mm in case of other candles.	MALIER MILES
4.5	Behaviour after extinguishing After extinguishing the candle shall not spontaneously re-light. The wick shall not continue to glow or smoke for an average time of more than 30 s after extinguishing.	PASS
4.6	Container candles The container shall not crack or break at any time throughout the burning test.	PASS

Abbreviation: NA =Not applicable



Test data:

Sample ID	Wax weight (in net and g)	Size (mm)	
A1	122.4	Ф71.27 X 79.64	
- A2	117.7	Ф71.05 X 79.62	
A3	119.9	Ф71.31 X 79.84	

ALTE OLIVE	Flame height (mm)		Total burn	Total burn Dargantage of	Wax	Average after
Sample ID	Maximum	Maximum	Total burn Percentage of wax burnt (%)	spillage(%)	smoke or glow time (s)	
A1	15	20	27.0	95.3%	ar 0 ar	8 70
A2	15	25	24.5	95.7%	0	8
A3	15	20	25.5	95.3%	0	8

Test data:

Sample ID	Wax weight (in net and g)	Size (mm)		
B1	55.2	Ф55.74 X 66.98		
B2 W	55.8	Ф55.87 X 67.06		
B3	54.9	Ф56.12 X 67.07		

Sample ID	Flame height (mm)		Total burn	Percentage of	Wax	Average after
	Maximum	Maximum	time(hours)	wax burnt (%)	spillage(%)	smoke or glow time (s)
B1	10	20	17.0	92.4%	0	8 4
B2	10	15	18.5	92.3%	0,10	8
B3	15	20	17.0	87.2%	0	8

Test Material List:

Material No.	Sample Description	Location	
it with with the	Green Candle	Individual(CX1508)	
2	Green Candle	Individual(CX1509	



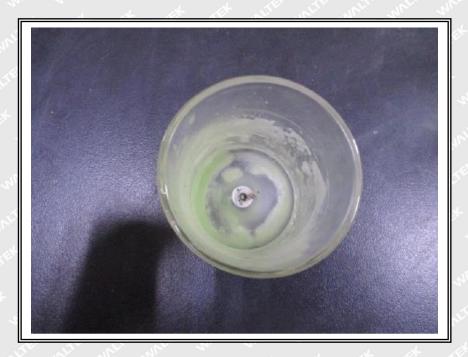
Test sample photo:





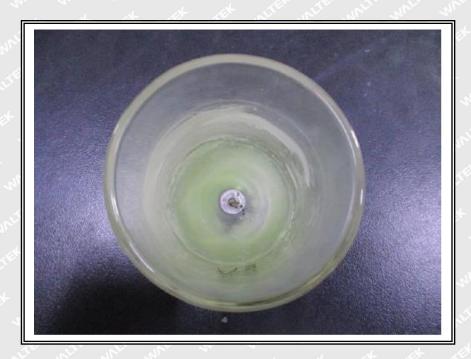






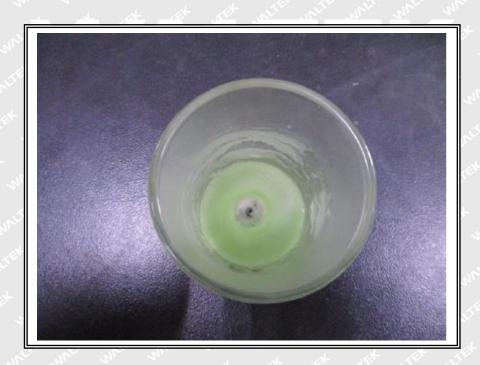












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===== End of Report ======

