

TEST REPORT

Reference No.: WTF19F10073105X1C

Applicant: Mid Ocean Brands B.V.

Hong Kong

Manufacturer..... : 112451

Sample Name.....: Truckers cap polyester

Model No. : MO8594

Test Method: Please refer to next page (s)

Test Conclusion : Please refer to next page (s)

Date of Receipt sample....: 2019-10-23

Date of Test 2019-10-23 to 2019-11-01

Date of Issue : 2019-11-19

Test Result: Please refer to next page (s)

Note: This report is based on Waltek test report WTF19F10073105C for

revising, and replaced report WTF19F10073105C.

Remarks:

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Test Requested.....:

- 1) 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
- Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628
- 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) Determine the specified AZO Colorants contents in the submitted sample in according to the Entries 43 in Annex XVII of the REACH Regulation (EC) No.1907/2006 and the Amendment Regulation (EC) No.552/ 2009 & No.126/ 2013 (previously restricted under Directive 2002/61/EC).
- 5) Nickel content requirement in Annex XVII Item 27 of the REACH Regulation (EC) No. 1907/2006 & amendment No.552/2009 (formerly known as Directive 94/27/EC and 2004/96/EC)
- 6) As specified by client, determination of the free and hydrolysed formaldehyde content in submitted sample.
- 7) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.
- 8) As requested by the applicant, to test Fibre content in the submitted sample.

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Test Result:

1) Cadmium (Cd)

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

Took Kom	MDL JO	Results (mg/	/kg)
Test Item	(mg/kg)	No.3	No.4
Cadmium(Cd)	2	ND W	ND
Conclusion	m m	Pass	Pass

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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

2) Lead (Pb)

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

Tak kamilik Ni	MDL	10	Limit		
Test Item	(mg/kg)	No.1	No.2	No.3	(mg/kg)
Lead(Pb)	2	ND	ND	- ND	500
Conclusion	V A - 7	Pass	Pass	Pass	2,-

Took Hom	MDL	Results (mg/kg)				
Test Item	(mg/kg)	No.4	No.5	No.6	(mg/kg)	
Lead(Pb)	2	ND ND	ND ND	WD ND	500	
Conclusion	in min - min	Pass	Pass	Pass	OLITER WITER	

Note

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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.

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3) Phthalates

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

Test Items	MDL	Res	Limit	
	(%)	No.3	No.4	(%)
Benzyl butyl phthalate (BBP)	0.005	ND	ND	at alt ill
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND LITE	ND W	sum of four
Dibutyl phthalate (DBP)	0.005	ND	ND	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND SIE	ND	it lit
Diisodecyl phthalate (DIDP)	0.01	ND*	ND ND	whi we w
Diisononyl phthalate (DINP)	0.01	ND	ND +	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND	ND	primarates v 0.1
Conclusion		Pass	Pass	LIE MLIE-MILIE

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 Less than the method detection limit
- (3) MDL=Method Detection Limit
- (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.

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4) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Amines Substances	CAS No.	Limit	Result (mg/kg)		
NO.	Allillies Substances	CAS NO.	(mg/kg)	No.2	No.5	
1	4-Aminobiphenyl	92-67-1	30	ND	ND	
2	Benzidine	92-87-5	30	ND	ND	
3	4-chloro-o-Toluidine	95-69-2	30	ND	ND	
4	2-Naphthylamine	91-59-8	30	ND	ND	
5	o-Aminoazotoluene	97-56-3	30	ND	ND	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	ND	
7	p-Chloroaniline	106-47-8	30	ND	ND	
8	2,4-diaminoanisol	615-05-4	30	ND	ND	
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND	ND	
10	3,3'-Dichlorobenzidine	91-94-1	30	ND	ND	
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND	ND	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND CO	ND	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND	ND	
14	p-cresinin	120-71-8	30	ND	ND	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND	ND	
16	4,4'-Oxydianiline	101-80-4	30	ND	ND	
17	4,4'-Thiodianiline	139-65-1	30	ND	ND	
18	o-Toluidine	95-53-4	30	ND ND	ND	
19	2,4-Toluylendiamine	95-80-7	30	ND	ND	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND	ND	
21	o-anisidine	90-04-0	30	ND	ND	
22	4-aminoazobenzene	60-09-3	30	ND	ND	
23	2,4-Xylidin	95-68-1	30	ND	ND	
24	2,6-Xylidin	87-62-7	30	ND	ND	
	Conclusion	Wer - Me	a_{h} .	Pass	Pass	

Note:

- ND = Not detected or less than the method detection limit
- mg/kg=Milligram per kilogram
- Method Detection Limit (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006



5) Nickel release

Test method: With reference BS EN1811: 2011+A1:2015, Nickel content was determined by Inductively Coupled Argon Plasma Spectrometry

Item No.	Sample Area (cm²)	Volume of Test	Nickel release (μg/cm²/week)			Conclusion	
EX TEX		Solution(ml)	Trial 1	Trial 2	Trial 3	Average	TEK JE
No.6	2.20	2+	ND C	ND	ND	ND	Pass

Note:

- (1) μ g/cm²/week = microgram per square centimetre per week
- (2) Method Detection limit = 0.05 μg/cm²/week
- (3) ND = Not detected or less than the value of Method Detection Limit
- (4) Interpretation of test results:

at the test that the street with	Nickel Release(μg/cm²/week)			
Type of sample	Pass	Fail		
Other components in direct and prolonged contact with the skin	<0.88	≥0.88		
Post assemblies and body piercings (Post assemblies which are inserted into pierced parts of the human body)	<0.35	≥0.35		

6) Formaldehyde

Test Method: With reference to ISO14184-1:2011, analysis was performed by UV-VIS

Test Item	20		Result			Client's
	Unit	No.7	No.8	No.9	MDL	Limit
Formaldehyde (CH ₂ O)	mg/kg	ND	ND	18	16	75
Conclusion	LIEK OFFER	Pass	Pass	Pass	7	

Note:

- ND = Not detected or less than the method detection limit
- mg/kg =milligram per kilogram=ppm
- MDL= Method Detection Limit



7) Colour Fastness to Rubbing

Colour Fastness to Rubbi	ng	TER OLIVE MILL W	y my m			
(ISO 105 X12: 2001/Cor 2002; Size of rubbing finger: 16mm diameter.)						
the with the	No.10	No.11	Client's Limit			
Dry staining	4 15	W W4 W	2-3			
Wet staining	3-4	3-4	2-3			
Conclusion	Pass	Pass	"u - n - n			

Note:

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

8) Fibre content

Fibre content	The state of the s	ill Mr.	ne m
(ISO/TR 11827:2012 & ISO	O 1833-12:2019, based on moisture regain weight)	, 4	at et
Test Sample	No.1- White main fabric	Requi	rement
Lab Analysis	100% Polyester	W W	Tolerance:

Test Specimen Description:

No.1: White main fabric

No.2: Pink main fabric

No.3: Pink plastic net

No.4: Pink plastic buckle

No.5: Pink fabric

No.6: Silvery metal rivet

No.7: White main fabric

No.8: Orange main fabric

No.9: Orange fabric

No.10: Black main fabric

No.11: Black fabric

Sample photo:









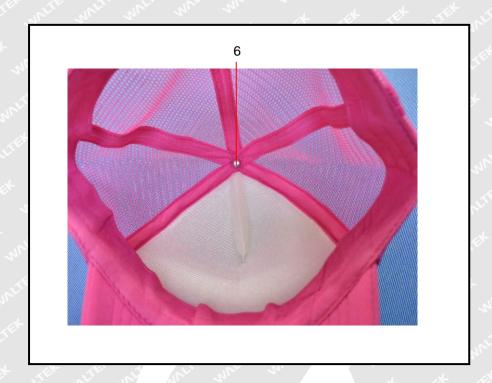
Photographs of parts tested:

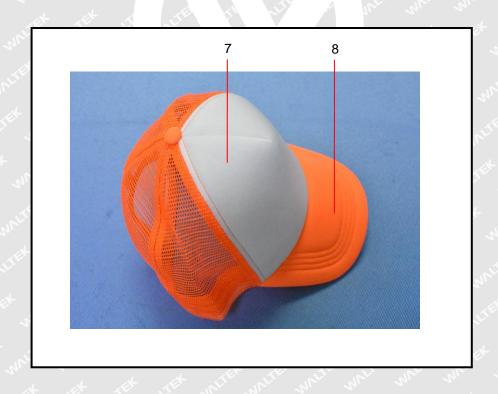






















===== End of Report =====

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