

TEST REPORT

Report No.		:
Applicant		
Address		
Manufacturer	·····	
Sample Name		s
Sample Model		:
Test Requested		

 Test Conclusion
 :

 Date of Receipt sample
 :

 Testing period
 :

 Date of Issue
 :

 Test Result
 :

 Note
 :

WTF23F05105332C

Mid Ocean Brands B.V.

7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

111587

Reflective backpack

MO6993

- 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 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 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) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.

Refer to next page (s)

2023-05-15

2023-05-15 to 2023-05-22

2023-05-23

Refer to next page (s)

As specified by client, only test the designated sample.

Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City, Chencun, Shunde District, Foshan, Guangdong, China Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Signed for and on behalf of Waltek Testing Group (Foshan) Co., Ltd.

Swing Liang

Swing.Liang

Waltek Testing Group (Foshan) Co., Ltd. http://www.waltek.com.cn

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WT-510-201-15-A



E.

Sample photo:



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Report No.: WTF23F05105332C

Test Results:

1) Lead (Pb)

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

The Mary	LOQ	Results (mg/kg)			Limit	
Test Item	(mg/kg)	No.1+No.2	No.3	No.4	No.5	(mg/kg)
Lead(Pb)	2	44*	ND	ND	ND ND	500
Conclusion	NUTE THE	Pass	Pass	Pass	Pass	

Test Item	LOQ	Results (mg/kg)			SET WALTE W	Limit
	(mg/kg)	No.6+No.7	No.8	No.9	No.10	(mg/kg)
Lead(Pb)	2	ND*	ND	ND	20	500
Conclusion	antie	Pass	Pass	Pass	Pass	

Taat Kam	LOQ	Results (mg/kg)			LOQ Results (mg/kg)		Limit
Test Item	(mg/kg)	No.11	No.12	No.13	No.14	(mg/kg)	
Lead(Pb)	2	ND	A ND	ND ND	JND J	500	
Conclusion	1 V N	Pass	Pass	Pass	Pass	* 14	

the water water	LOQ	Results (mg/kg)	Junt Jun Limit
Test Item	(mg/kg)	No.15+No.16	(mg/kg)
Lead(Pb)	2	ND*	500
Conclusion	in anti- main	Pass	et the state with

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.

Tereform States	LOQ	LOQ Results (mg/kg)						
Test Item	(mg/kg)	No.1+No.2	No.10	No.11	No.15+No.16			
Cadmium(Cd)	2	ND*	ND	ND -	ND*			
Conclusion	1 - 1	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.1+No.2	(%)
Benzyl butyl phthalate (BBP)	0.005	ND*	the the second sec
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	sum of four
Dibutyl phthalate (DBP)	0.005 ND*		phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND*	me me me
Diisodecyl phthalate (DIDP)	0.01	ND*	NUTER WALTER WALTER
Diisononyl phthalate (DINP)	0.01	ND*	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND*	prividuos < 0.1
Conclusion	C WE WE	Pass	x # 4 4

Note:

DBP= Dibutyl phthalate DINP= Di-isononyl phthalate DIBP= Diisobutyl phthalate BBP= Benzyl butyl phthalate DNOP= Di-n-octyl phthalate DEHP= Bis-(2-ethylhexyl)- phthalate DIDP= Di-isodecyl 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) 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	Aminos Substances		Limit	Result (mg/kg)		
No.	Amines Substances	CAS No.	(mg/kg)	No.3	No.4	No.5
1	4-Aminobiphenyl	92-67-1	30	ND	ND	ND
2	Benzidine	92-87-5	30	ND	ND ND	ND
3	4-chloro-o-Toluidine	95-69-2	30	ND	ND	ND
4	2-Naphthylamine	91-59-8	30	ND	ND	_s€ND
5	o-Aminoazotoluene	97-56-3	30	ND	ND	ND
6,0	2-Amino-4-nitrotoluene	99-55-8	30	ND S	ND	NDS
7	p-Chloroaniline	106-47-8	30	ND	ND	~-ND
8	2,4-diaminoanisol	615-05-4	30	ND	JOND J	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND	ND	ND
10	3,3'-Dichlorobenzidine	91-94-1	30	ND	ND	ND
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND	ND of	ND
12	3,3'-Dimethylbenzidine	119-93-7	30	ND S	ND	ND
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND	- ND	ND
14	p-cresinin	120-71-8	30	ND	≪ND ≤	ND
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND	ND	ND)
16	4,4'-Oxydianiline	101-80-4	30	ND	ND ND	ND
17	4,4'-Thiodianiline	139-65-1	30	ND	ND	ND
18	o-Toluidine	95-53-4	30	ND 4	ND	ND
19	2,4-Toluylendiamine	95-80-7	30	ND	of ND	ND
20	2,4,5 – Trimethylaniline	137-17-7	30	MD SM	ND	ND
21	o-anisidine	90-04-0	30	ND S	ND	ND
22	4-aminoazobenzene	60-09-3	J ³⁰ J	ND	ND ND	ND
23	2,4-Xylidin	95-68-1	30	⊢ ND	ND S	ND
24	2,6-Xylidin	87-62-7	30	ND	ND	ND
it.	Conclusion		s 1	Pass	Pass	Pass



	Anning Cub alter and State	a la nov	Limit	Result (mg/kg)		
No.	Amines Substances	CAS No.	(mg/kg)	No.6+No.7	No.8+No.14	
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	J ³⁰ J	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	<u> </u>	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 - 50	ND*	ND*	
12	3,3'-Dimethylbenzidine	119-93-7	<u>_</u> 30 _	ND*	ND*	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*	ND*	
14	p-cresinin	120-71-8	a 30 a	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*	
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	2h		Pass	Pass	



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Na	Aminos Cubatanasa	CARNEN	Limit	Result (mg/kg)		
No.	Amines Substances	CAS No.	(mg/kg)	No.9		
1	4-Aminobiphenyl	92-67-1	30	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 STEE ST		
5	o-Aminoazotoluene	97-56-3	30	ND		
6	2-Amino-4-nitrotoluene	99-55-8	<u></u> 30	ND ND		
7	p-Chloroaniline	106-47-8	30	ND		
8	2,4-diaminoanisol	615-05-4	- 30	ND		
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND		
10	3,3'-Dichlorobenzidine	91-94-1	30	ND on on		
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND		
12	3,3'-Dimethylbenzidine	119-93-7	30	ND ND NO		
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND		
14	p-cresinin	120-71-8	30	ND WE		
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND		
16	4,4'-Oxydianiline	101-80-4	30	ND ND VI		
17	4,4'-Thiodianiline	139-65-1	30	ND		
18	o-Toluidine	95-53-4	30	ND white white		
19	2,4-Toluylendiamine	95-80-7	30	ND 🦽		
20	2,4,5 – Trimethylaniline	137-17-7	30	ND ND		
21	o-anisidine	90-04-0	30	ND A		
22	4-aminoazobenzene	60-09-3	30	ND		
23	2,4-Xylidin	95-68-1	30	ND		
24	2,6-Xylidin	87-62-7	30	JUND JUND		
de.	Conclusion	- 2 <u>11</u>		Pass		

Note:

- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of quantitation (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
- "*" = Results are calculated by the minimum weight of mixed components.



5) Colour Fastness to Rubbing

Colour Fastne	ess to Rubbing					
(ISO 105-X12:	2016; Size of rubbin	g finger: 16m	n diameter.)		A A	1. 15
when when	the she a	No.3	No.4	No.5	No.6+No.7	Client's Limit
Longth	Dry staining	4-5	4-5	4-5	4-5*	2-3
Length	Wet staining	4-5	4-5	4-5	4-5*	2-3
Width	Dry staining	4-5	4-5	4-5	4-5*	2-3
Width	Wet staining	4-5	4-5	4-5	4-5*	2-3
Conclusion	a the a	Pass	Pass	Pass	Pass	mr - m

Colour Fastness	to	Rubbing
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(ISO 105-X12:	2016; Size of rubbing	finger: 16mm dia	ameter.)	the state	AT AT
me m		No.8	No.9	No.14	Client's Limit
Length	Dry staining	4-5	4-5	4-5	2-3
	Wet staining	4-5	4-5	4-5	2-3
Width	Dry staining	4-5	4-5	4-5	2-3
	Wet staining	4-5	4-5	4-5	2-3 S
Conclusion		Pass	Pass	Pass	- m m.

Note:

- (1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.
- (2) "*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only.

Description for Specimen:

Specimen No.	Specimen Description		
at 101 out with a	Black plastic buckle		
2	Black plastic buckle		
ist and 3 life white a his	Black white elastic band		
1 4 A A A	Black webbing		
unit with all	Silvery grey main fabric		
6	Black elastic band		
7	Black net fabric		
8,000 000	Black fabric sheet		
9 5 5	Black main fabric		
10	Silvery metal zipper head with black coating		
J1	Black plastic zipper tooth		

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WT-510-201-15-A

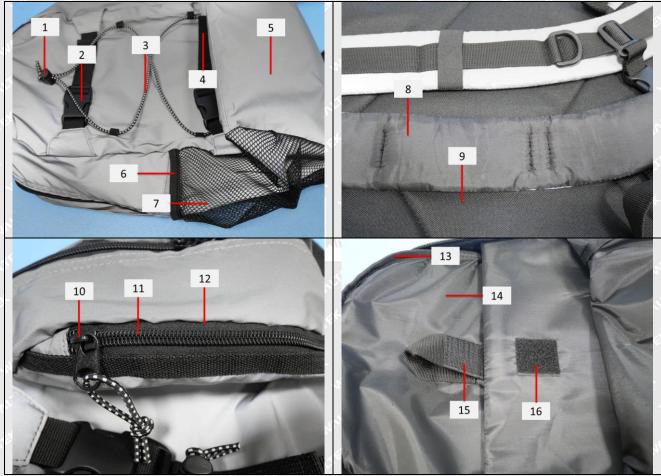


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Report No.: WTF23F05105332C

Specimen Description Black zipper fabric		
Black lining		
Black plastic hook(VELCRO)		
Black plastic loop(VELCRO)		

Photograph of parts tested:



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Remarks:

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