

# Testing Report



Job No.:/


Report No.: HQ2231100583

Applicant: Mid Ocean Hong Kong Ltd.  
 7/F., Kings Tower, 111 King Lam Street, Cheung Shan Wan,  
 Kowloon, Hong Kong

Contact: /

Overall Rating:	
Data	<input type="checkbox"/>
Satisfactory	<input checked="" type="checkbox"/>
Unsatisfactory	<input type="checkbox"/>
Others, See Detail Enclosed	<input type="checkbox"/>

## Sample Information

	Client:	Mid Ocean Hong Kong Ltd.
	Supplier:	113098
	Factory:	/
	Item No.:	MO6808-03
	Sample Description:	Photo Trolley
	PO No.:	4100110814
	Category No.:	Suitcase
	Sample Submitted:	1 pc and additional components in good condition were provided by applicant
	Country of Origin:	China
	Destination:	E.U.
	Received Date:	Nov.09,2022
	Testing Period:	Nov.10,2022 to Nov.18,2022
	Testing Standard:	Selected tests as requested by applicants, details refer to following pages.
	Service Location:	Hangzhou
Remark:	/	

\*\*\*\*\*To be Continued

# Testing Report



Job No.:/

Report No.: HQ2231100583

## Testing Summary of Tested Component on Submitted Sample:

1	Color Fastness to Rubbing	Pass
2	EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 63 Lead Content	Pass
3	EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 23 Cadmium Content	Pass
4	EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 27 Nickel Release	Pass
5	EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 51, 52 Phthalates Content	Pass
6	EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 50 PAHs content	Pass
7	EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 43 AZO Dyes	Pass

\*\*\*\*\*To be Continued

HQTS QA International Services Co., Ltd.



Approved by

Issued Date: 2022-11-18

# Testing Report



Job No.:/

Report No.: HQ2231100583

## 1 Color Fastness to Rubbing

EN ISO 105-X12:2016

		Result		Requirement
		#20 Black Elastic	#24 Black Lining	
Dry(Grade)	:	4-5	4-5	2-3
Wet(Grade)	:	4-5	4-5	2-3
Comment	:	Pass	Pass	

Remark:

The tested components were specified by applicant.

Grade 1– The Worst, Grade 3- Middle Grade, Grade 5– The Best

Source Light:D-65

\*\*\*\*\*To be Continued

# Testing Report



Job No.:/

Report No.: HQ2231100583

## 2 EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 63 Lead Content

As per requirement of applicant, total lead content were conducted according to microwave assisted acid digestion method (EPA 3052-1996), and method EPA 6010D-2018 for lead content was determined by inductively coupled argon plasma spectrometry.

Specimen	Tested Component Description (Location)	Max.Limit(ppm)	Result(ppm)	Comment
#01;#05	Mixed Silver Paint (on Handle); Black Paint (on Cover);	500	ND	Pass
#04;#06;#36	Mixed Black Plastic Binding;Black Plastic Trolley Handle (under Paint);White Plastic Cover (under Paint);	500	ND	Pass
#07;#08;#09	Mixed Black Plastic Buckle;Black Plastic Zipper Teeth;Black Plastic Handle;	500	26	Pass
#10;#11;#12	Mixed Black Plastic Lock;Transparent Plastic front Cover;Black Plastic Wheel Support;	500	ND	Pass
#13;#17;#18	Mixed Black Plastic Wheel Holder;Black Soft Plastic Handle;Black Soft Plastic Binding;	500	ND	Pass
#19	Black Soft Plastic Wheel	500	ND	Pass
#20	Black Elastic	500	ND	Pass
#22;#24	Mixed Black Zipper Fabric;Black Lining;	500	ND	Pass
#25	Silver Metal Trolley Pole (Under Paint)	500	14	Pass
#27	Silver Metal Zipper Puller (Big)	500	18	Pass
#28	Silver Metal Zipper Puller (Small)	500	14	Pass
#29	Silver Metal Zipper Slider (Big)	500	15	Pass
#30	Silver Metal Zipper Slider (Small)	500	12	Pass
#31	Silver Metal Screw (on Trolley Pole)	500	16	Pass
#34	Silver Metal Pad(bottom)	500	14	Pass
#35	Silver Metal Rivet	500	ND	Pass

Remark: ppm = part per million=mg/kg.

ND=Not Detected (<10mg/kg)

The tested component was specified by applicant.

\*\*\*\*\*To be Continued

# Testing Report



Job No.:/

Report No.: HQ2231100583

### 3 EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 23 Cadmium Content

As per requirement of applicant, total cadmium content was conducted according to microwave assisted acid digestion method (EPA 3052-1996), and method EPA 6010D-2018 for cadmium content was determined by inductively coupled argon plasma spectrometry.

Specimen	Tested Component Description (Location)	Max.Limit(ppm)	Result(ppm)	Comment
#01;#05	Mixed Silver Paint (on Handle);Black Paint (on Cover);	100	ND	Pass
#04;#06;#36	Mixed Black Plastic Binding;Black Plastic Trolley Handle (under Paint);White Plastic Cover (under Paint);	100	ND	Pass
#07;#08;#09	Mixed Black Plastic Buckle;Black Plastic Zipper Teeth;Black Plastic Handle;	100	ND	Pass
#10;#11;#12	Mixed Black Plastic Lock;Transparent Plastic front Cover;Black Plastic Wheel Support;	100	ND	Pass
#13;#17;#18	Mixed Black Plastic Wheel Holder;Black Soft Plastic Handle;Black Soft Plastic Binding;	100	ND	Pass
#19	Black Soft Plastic Wheel	100	ND	Pass
#20	Black Elastic	100	ND	Pass

Remark: ppm = part per million=mg/kg.

The tested component was specified by applicant.

ND=Not Detected (<5mg/kg)

\*\*\*\*\*To be Continued

# Testing Report



Job No.:/

Report No.: HQ2231100583

## 4 EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 27 Nickel Release

As per requirement of applicant, test method of EN1811:2011+A1:2015, PD CR 12471: 2002, EN 12472: 2020 was used, tested components were placed in an artificial sweat test solution for one week, and then the concentration of dissolved nickel in the solution were determined by inductively coupled argon plasma spectrometry.

Classification of Sample Type: Non-Body Piercing					
Maximum Allowable Limit: 0.88 ug/cm <sup>2</sup> /week					
Specimen	Tested Component Description (Location)	Sample Area (cm <sup>2</sup> )	Volume of Test Solution(ml)	Result (ug/cm <sup>2</sup> /week)	Comment
#27	Silver Metal Zipper Puller (Big)	10.5	25.0	<0.05	Pass
				<0.05	Pass
				<0.05	Pass
#28	Silver Metal Zipper Puller (Small)	4.2	4.2	<0.05	Pass
				<0.05	Pass
				<0.05	Pass

Remark: The tested component was specified by applicant.

Because of the combined measurement uncertainty of 46 %, an article is non-compliant only when the nickel release is greater than or equal to 0.88  $\mu\text{g}/\text{cm}^2/\text{week}$ . Hence an article shall be accepted and be permitted to be placed on the market if the measured value is less than 0.88  $\mu\text{g}/\text{cm}^2/\text{week}$ .

\*\*\*\*\*To be Continued

# Testing Report



Job No.:/

Report No.: HQ2231100583

## 5 EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 51, 52 Phthalates Content

As per European commission directive 1907/2006 relating to restrictions on phthalates in toys and child care articles, EN 14372-2004, IEC 62321-8:2017 method was used, and phthalates content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

	CAS No.	Result (%)				Max.Limit (%)
		#01;#05	#04;#06;#36	#07;#08;#09	#10;#11;#12	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	/
Benzyl Butyl Phthalate (BBP)	85-68-7	ND	ND	ND	ND	/
Bis(2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	ND	/
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	/
Total (DBP+BBP+DEHP+DIBP)		<0.0100	<0.0100	<0.0100	<0.0100	0.1
Di-N-Octyl Phthalate (DnOP)	117-84-0	ND	ND	ND	ND	/
Di-“Isononyl” Phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	ND	/
Di-“Isodecyl” Phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	ND	/
Total (DnOP+DINP+DIDP)		<0.0100	<0.0100	<0.0100	<0.0100	0.1
Comment		Pass	Pass	Pass	Pass	

\*\*\*\*\*To be Continued

# Testing Report



Job No.:/

Report No.: HQ2231100583

	CAS No.	Result (%)			Max.Limit (%)
		#13;#17;#18	#19	#20	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	/
Benzyl Butyl Phthalate (BBP)	85-68-7	ND	ND	ND	/
Bis(2-Ethylhexyl) Phthalate (DEHP)	117-81-7	0.0221	0.0145	ND	/
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	/
Total (DBP+BBP+DEHP+DIBP)		0.0221	0.0145	<0.0100	0.1
Di-N-Octyl Phthalate (DnOP)	117-84-0	ND	ND	ND	/
Di-"Isononyl" Phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	/
Di-"Isodecyl" Phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	/
Total (DnOP+DINP+DIDP)		<0.0100	<0.0100	<0.0100	0.1
Comment		Pass	Pass	Pass	

Remark: ND= Not Detected (<0.0100%)

The tested component was specified by applicant.

Tested Component Description (Location):

#01;#05	Mixed Silver Paint (on Handle);Black Paint (on Cover);	#13;#17;#18	Mixed Black Plastic Wheel Holder;Black Soft Plastic Handle;Black Soft Plastic Binding;
#04;#06;#36	Mixed Black Plastic Binding;Black Plastic Trolley Handle (under Paint);White Plastic Cover (under Paint);	#19	Black Soft Plastic Wheel
#07;#08;#09	Mixed Black Plastic Buckle;Black Plastic Zipper Teeth;Black Plastic Handle;	#20	Black Elastic
#10;#11;#12	Mixed Black Plastic Lock;Transparent Plastic front Cover;Black Plastic Wheel Support;		

\*\*\*\*\*To be Continued



# Testing Report



Job No.:/

Report No.: HQ2231100583

## 6 EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 50 PAHs content

As per requirement of applicant, method AfPS GS 2019:01 PAK was used, and PAHs content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

Sample Categorization: rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity					
Test items(s)	CAS NO.	Limit (mg/kg)	Result (mg/kg)		
			#06	#17	
1	Benzo(a)pyrene(BaP)	50-32-8	1	<0.2	<0.2
2	Benzo(e)pyrene(BeP)	192-97-2	1	<0.2	<0.2
3	Benzo(a)anthracene(BaA)	56-55-3	1	<0.2	<0.2
4	Chrysene(CHR)	218-01-9	1	<0.2	<0.2
5	Benzo(b)fluoranthene(BbFA)	205-99-2	1	<0.2	<0.2
6	Benzo(j)fluoranthene(BjFA)	205-82-3	1	<0.2	<0.2
7	Benzo(k)fluoranthene(BkFA)	207-08-9	1	<0.2	<0.2
8	Dibenzo(a,h)anthracene (DBAhA)	53-70-3	1	<0.2	<0.2
Comment				Pass	Pass

Remark: The tested component was specified by applicant.

Tested Component Description (Location):

#06	Black Plastic Trolley Handle (under Paint)	#17	Black Soft Plastic Handle
-----	--	-----	---------------------------

\*\*\*\*\*To be Continued

# Testing Report



Job No.:/

Report No.: HQ2231100583

## 7 EU Regulation (EC) No 1907/2006 of REACH Annex XVII Entry 43 AZO Dyes

As per requirement of applicant, EN 14362-1:2017 method was used, and then determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

		Result (mg/kg)		Limit (mg/kg)
		#20	#22;#24	
1	4-aminobiphenyl	ND	ND	30
2	3,3'-dimethoxybenzidine	ND	ND	30
3	3,3'-dimethylbenzidine	ND	ND	30
4	3,3'-dimethyl-4,4'-diaminobiphenylmethane	ND	ND	30
5	p-cresidine	ND	ND	30
6	4,4'-methylene-bis-2-chloroaniline	ND	ND	30
7	4,4'-oxydianiline	ND	ND	30
8	4,4'-thiodianiline	ND	ND	30
9	o-toluidine	ND	ND	30
10	2,4-toluylenediamine	ND	ND	30
11	2,4,5-trimethylaniline	ND	ND	30
12	benzidine	ND	ND	30
13	o-anisidine	ND	ND	30
14	5-nitro-o-toluidine	ND	ND	30
15	4-aminoazobenzene	ND	ND	30
16	4-chloro-o-toluidine	ND	ND	30
17	2-naphthylamine	ND	ND	30
18	o-aminoazotoluene	ND	ND	30
19	p-chloroaniline	ND	ND	30
20	2,4-diaminoanisole	ND	ND	30
21	4,4'-diaminobiphenylmethane	ND	ND	30
22	3,3'-dichlorobenzidine	ND	ND	30
Comment		Pass	Pass	

Remark: ND= Not Detected (<5mg/kg)

The tested component was specified by applicant.

Tested Component Description (Location):

#20	Black Elastic	#22;#24	Mixed Black Zipper Fabric;Black Lining;
-----	---------------	---------	---

\*\*\*\*\*To be Continued

# Testing Report



Job No.:/

Report No.: HQ2231100583

## Photo Attachment



Additional Components

\*\*\*\*\*End of Report