

Testing Report



Job No.:/

Report No.: HQ2231001422-R2

Applicant: Mid Ocean Brands B.V.
 7/F., Kings Tower, 111 King Lam Street, Cheung Sha 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



HQ2231001422



HQ2231001422

Client:	/
Supplier:	113098
Factory:	/
Item No.:	MO6807
Sample Description:	RPET Soft Suitcase
PO No.:	4100110814
Category No.:	Suitcase
Sample Submitted:	3 pcs and additional component in good condition were provided by applicant
Country of Origin:	China
Destination:	E. U.
Received Date:	Oct. 25, 2022 & Oct. 28, 2022 & Nov. 11, 2022
Testing Period:	Oct. 27, 2022 to Nov. 09, 2022
Testing Standard:	Selected tests as requested by applicants, details refer to following pages.
Service Location:	Hangzhou
Remark:	This report supersedes the test report No.HQ2231001422 issued on Nov. 09, 2022, the test report No.HQ2231001422-R issued on Nov. 10, 2022

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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: 2022-11-11

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1 Color Fastness to Rubbing

EN ISO 105-X12:2016

		Result		Requirement
		#24 Black Main Fabric	#28 Grey Lining	
Dry(Grade)	:	4	4-5	2-3
Wet(Grade)	:	4-5	4-5	2-3
Comment	:	Pass	Pass	

		Result		Requirement
		#29 Grey Binding	#30 Grey Webbing	
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

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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	Silver Paint (on Handle)	500	ND	Pass
#04;#05;#06	Mixed Black Plastic Handle (under Paint);White Plastic Handle (under Paint);Grey Plastic Buckle;	500	ND	Pass
#08;#09	Mixed Black Plastic Zipper Teeth;Grey Plastic Zipper Teeth;	500	ND	Pass
#10;#11;#12	Mixed Black Plastic Lock;Black Plastic Footstand;Black Plastic Namecard;	500	ND	Pass
#13;#14;#15	Mixed Black Plastic Handle;Black Plastic Wheel Support;Black Plastic Wheel Holder;	500	ND	Pass
#18;#19	Mixed Grey Plastic Velcro (Hook);Black Plastic Velcro (Hook);	500	ND	Pass
#20	Black Soft Plastic Wheel	500	ND	Pass
#21;#22	Mixed Grey Plastic Velcro (Loop);Black Plastic Velcro (Loop);	500	ND	Pass
#33	Silver Metal Trolley Pole (Under Paint)	500	ND	Pass

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

ND=Not Detected (<10mg/kg)

The tested component was specified by applicant.

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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	Silver Paint (on Handle)	100	ND	Pass
#04;#05;#06	Mixed Black Plastic Handle (under Paint);White Plastic Handle (under Paint);Grey Plastic Buckle;	100	ND	Pass
#08;#09	Mixed Black Plastic Zipper Teeth;Grey Plastic Zipper Teeth;	100	ND	Pass
#10;#11;#12	Mixed Black Plastic Lock;Black Plastic Footstand;Black Plastic Namecard;	100	ND	Pass
#13;#14;#15	Mixed Black Plastic Handle;Black Plastic Wheel Support;Black Plastic Wheel Holder;	100	ND	Pass

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

The tested component was specified by applicant.

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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 ² /week					
Specimen	Tested Component Description (Location)	Sample Area (cm ²)	Volume of Test Solution(ml)	Result (ug/cm ² /week)	Comment
#35	Silver Metal Zipper Puller (Big)	8.7	10.0	<0.05	Pass
				<0.05	Pass
				<0.05	Pass
#36	Silver Metal Zipper Puller (Small)	10.8	25.0	<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 µg/cm²/week. Hence an article shall be accepted and be permitted to be placed on the market if the measured value is less than 0.88µg/cm²/week.

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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 method was used, and phthalates content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

	CAS No.	Result (%)				Max.Limit (%)
		#01	#04;#05;#06	#08;#09	#10	
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	0.0754	/
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	/
Total (DBP+BBP+DEHP+DIBP)	/	<0.0100	<0.0100	<0.0100	0.0754	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	

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	CAS No.	Result (%)	Max.Limit (%)
		#13;#14;#15	
Dibutyl phthalate (DBP)	84-74-2	ND	/
Benzyl Butyl Phthalate (BBP)	85-68-7	ND	/
Bis(2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND	/
Diisobutyl phthalate (DIBP)	84-69-5	ND	/
Total (DBP+BBP+DEHP+DIBP)	/	<0.0100	0.1
Di-N-Octyl Phthalate (DnOP)	117-84-0	ND	/
Di-“Isononyl” Phthalate (DINP)	28553-12-0/ 68515-48-0	ND	/
Di-“Isodecyl” Phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	/
Total (DnOP+DINP+DIDP)	/	<0.0100	0.1
Comment		Pass	

Remark: ND= Not Detected (<0.0100%)

The tested component was specified by applicant.

Tested Component Description (Location):

#01	Silver Paint (on Handle)	#10	Mixed Black Plastic Lock;Black Plastic Footstand;Black Plastic Namecard;
#04;#05; #06	Mixed Black Plastic Handle (under Paint);White Plastic Handle (under Paint);Grey Plastic Buckle;	#13;#14; #15	Mixed Black Plastic Handle;Black Plastic Wheel Support;Black Plastic Wheel Holder;
#08;#09	Mixed Black Plastic Zipper Teeth;Grey Plastic Zipper Teeth;		

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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)			
			#04	#05	#13	
1	Benzo(a)pyrene(BaP)	50-32-8	1	<0.2	<0.2	<0.2
2	Benzo(e)pyrene(BeP)	192-97-2	1	<0.2	<0.2	<0.2
3	Benzo(a)anthracene(BaA)	56-55-3	1	<0.2	<0.2	<0.2
4	Chrysene(CHR)	218-01-9	1	<0.2	<0.2	<0.2
5	Benzo(b)fluoranthene(BbFA)	205-99-2	1	<0.2	<0.2	<0.2
6	Benzo(j)fluoranthene(BjFA)	205-82-3	1	<0.2	<0.2	<0.2
7	Benzo(k)fluoranthene(BkFA)	207-08-9	1	<0.2	<0.2	<0.2
8	Dibenzo(a,h)anthracene (DBAhA)	53-70-3	1	<0.2	<0.2	<0.2
Comment				Pass	Pass	Pass

Remark: The tested component was specified by applicant.

Tested Component Description (Location):

#04	Black Plastic Handle (under Paint)	#13	Black Plastic Handle
#05	White Plastic Handle (under Paint)		

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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)
		#21;#22	#24;#44;#45	#28;#29;#30	
1	4-aminobiphenyl	ND	ND	ND	30
2	3,3'-dimethoxybenzidine	ND	ND	ND	30
3	3,3'-dimethylbenzidine	ND	ND	ND	30
4	3,3'-dimethyl-4,4'-diaminobiphenylmethane	ND	ND	ND	30
5	p-cresidine	ND	ND	ND	30
6	4,4'-methylene-bis-2-chloroaniline	ND	ND	ND	30
7	4,4'-oxydianiline	ND	ND	ND	30
8	4,4'-thiodianiline	ND	ND	ND	30
9	o-toluidine	ND	ND	ND	30
10	2,4-toluylenediamine	ND	ND	ND	30
11	2,4,5-trimethylaniline	ND	ND	ND	30
12	benzidine	ND	ND	ND	30
13	o-anisidine	ND	ND	ND	30
14	5-nitro-o-toluidine	ND	ND	ND	30
15	4-aminoazobenzene	ND	ND	ND	30
16	4-chloro-o-toluidine	ND	ND	ND	30
17	2-naphthylamine	ND	ND	ND	30
18	o-aminoazotoluene	ND	ND	ND	30
19	p-chloroaniline	ND	ND	ND	30
20	2,4-diaminoanisole	ND	ND	ND	30
21	4,4'-diaminobiphenylmethane	ND	ND	ND	30
22	3,3'-dichlorobenzidine	ND	ND	ND	30
Comment		Pass	Pass	Pass	

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

The tested component was specified by applicant.

Tested Component Description (Location):

#21;#22	Mixed Grey Plastic Velcro (Loop);Black Plastic Velcro (Loop);	#28;#29; #30	Mixed Grey Lining;Grey Binding;Grey Webbing;
#24;#44; #45	Mixed Black Main Fabric;Blue main fabric;Red main fabric;		

Photo Attachment



Additional Component



Additional Component

*****End of Report