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检测
TESTING
CNAS L6478



TEST REPORT

Report No. : WTF25F07202157C
Job No. : FSW2507291481CJ
Applicant : Mid Ocean Brands B.V.
Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer : 119879
Sample Name : Charging cable lanyard and phone holder
Sample Model : MC1006, MC1007, MC2006, MC2007
Test Requested : With reference to EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample.
Test Method : Refer to next page (s)
Test Conclusion : **Pass**
Date of Receipt Sample : 2025-07-29
Testing Period : 2025-07-29 to 2025-08-05
Date of Issue : 2025-08-05
Test Result : Refer to next page (s)

Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

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

Swing Liang



WTF25F07202157C

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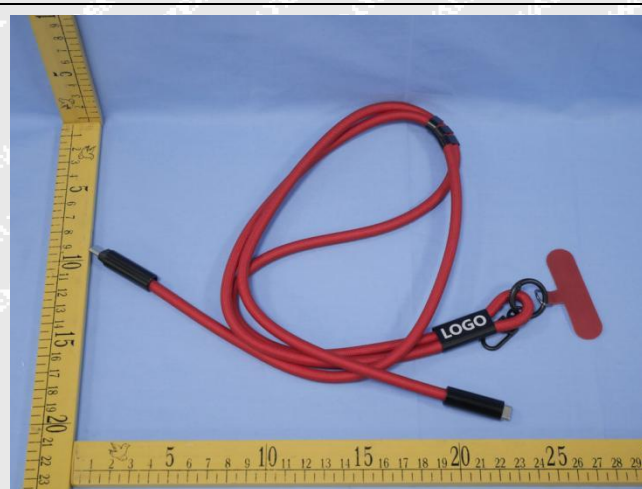
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Sample photo:



MC1006



MC1006



MC1006



MC1006



MC1006



MC1007



Report No.: WTF25F07202157C

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MC2006



MC2007

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Test Results:**1. Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs**

Test Method/Equipment:

- 1) With reference to IEC 62321-2:2021, disassembly, disjunction and mechanical sample preparation
- 2) With reference to IEC 62321-3-1:2013, screening –Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
- 3) With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES
- 4) With reference to IEC 62321-5:2013, determination of Lead and Cadmium by ICP-OES
- 5) With reference to IEC 62321-7-2: 2017 and IEC 62321-7-1: 2015, determination of Hexavalent Chromium by UV-Vis
- 6) With reference to IEC 62321-12:2023, determination of PBBs and PBDEs by GC-MS

Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
1	Black plastic jacket	BL	BL	BL	BL	BL	NA
2	Silvery metal shell(USB plug)	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
3	Dark grey plastic core(USB plug)	BL	BL	BL	BL	BL	NA
4	Solder(USB plug)	BL	IN	BL	BL	--	Pb: 136
5	Silvery metal pin(USB plug)	BL	BL	BL	BL	--	NA
6	Blue PCB(USB plug)	BL	BL	BL	BL	BL	NA
7	Chip capacitor(USB plug)	BL	BL	BL	BL	BL	NA
8	Red fibrous jacket	BL	BL	BL	BL	BL	NA
9	White plastic wire jacket	BL	BL	BL	BL	BL	NA
10	White plastic wire covering	BL	BL	BL	BL	BL	NA
11	Black plastic wire covering	BL	BL	BL	BL	BL	NA
12	Red plastic wire covering	BL	BL	BL	BL	BL	NA
13	Coppery metal wire	BL	BL	BL	BL	--	NA



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Part No.	Part Description	Result of XRF					Result of Wet Chemical Testing (mg/kg)
		Cd	Pb	Hg	Cr	Br	
14	Silvery metal ring with black surface	BL	BL	BL	BL	--	NA
15	Silvery metal ring with black surface	BL	BL	BL	BL	--	NA
16	Dark silvery metal ring	BL	BL	BL	BL	--	NA
17	Silvery metal axle with black surface	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
18	Silvery metal buckle with black surface	BL	IN	BL	BL	--	Pb: 41
19	Silvery metal rivet with black surface	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
20	Silvery metal buckle with black surface	BL	BL	BL	BL	--	NA
21	Silvery metal buckle with black surface	BL	BL	BL	BL	--	NA
22	Silvery metal spring with black surface	BL	BL	BL	IN	--	Cr ⁶⁺ : Negative
23	Silvery metal ring with black-white surface	BL	BL	BL	BL	--	NA
24	Green fibrous sheet with transparent plastic sheet	BL	BL	BL	BL	BL	NA
25	Green plastic wire covering	BL	BL	BL	BL	BL	NA
26	Yellow plastic wire covering	BL	BL	BL	BL	BL	NA

2. Phthalates

Test Method/Equipment:

1) With reference to IEC 62321-12:2023, determination of DBP, BBP, DEHP, DIBP by GC-MS

Serial No.	Part No.	Result (mg/kg)			
		DBP	BBP	DEHP	DIBP
T01	1+9+10 [△]	ND	ND	ND	ND
T02	3	ND	ND	ND	ND
T03	6	ND	ND	ND	ND
T04	7	ND	ND	ND	ND



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Serial No.	Part No.	Result (mg/kg)			
		DBP	BBP	DEHP	DIBP
T05	8+24 [△]	ND	ND	ND	ND
T06	11+12+25 [△]	ND	ND	ND	ND
T07	26	ND	ND	ND	ND
T08	2	--	--	--	--
T09	4	--	--	--	--
T10	5	--	--	--	--
T11	13	--	--	--	--
T12	14	--	--	--	--
T13	15	--	--	--	--
T14	16	--	--	--	--
T15	17	--	--	--	--
T16	18	--	--	--	--
T17	19	--	--	--	--
T18	20	--	--	--	--
T19	21	--	--	--	--
T20	22	--	--	--	--
T21	23	--	--	--	--

Remark:

- (1) Results are obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < IN < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < IN < (130+3\sigma) \leq OL$	$LOD < IN < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < IN < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < IN < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < IN$	$BL \leq (700-3\sigma) < IN$	$BL \leq (500-3\sigma) < IN$
Br	$BL \leq (300-3\sigma) < IN$	--	$BL \leq (250-3\sigma) < IN$

BL= Below Limit

OL= Over Limit

LOD = Limit of Detection

- (2) "IN" expresses the inconclusive region, and further chemical testing to confirm whether it complies with the requirement of RoHS Directive.



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- (3) The XRF screening test for RoHS elements – the reading may be different to the actual content in the sample be of non-uniformity composition.
- (4) mg/kg =milligram per kilogram=ppm, $\mu\text{g}/\text{cm}^2$ = Micrograms per square centimetre.
- (5) ND = Not Detected or lower than limit of quantitation.
- (6) NA = Not Applicable, as the XRF screening test result was below the limit or as the XRF screening directly determine that test result was over the limit, it was not need to conduct the wet chemical testing.
- (7) -- = Not Regulated
- (8) LOQ = Limit of quantitation.

Test Items	Pb	Cd	Hg	Cr ⁶⁺		PBB	PBDE	DBP	BBP	DEHP	DIBP
Units	mg/kg	mg/kg	mg/kg	mg/kg	$\mu\text{g}/\text{cm}^2$	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOQ	2	2	2	8	0.1	5	5	50	50	50	50

The LOQ for single compound of PBBs and PBDEs is 5mg/kg, LOQ of Cr⁶⁺ for polymer and composite sample is 8mg/kg and LOQ of Cr⁶⁺ for metal sample is 0.1 $\mu\text{g}/\text{cm}^2$.

- (9) According to IEC 62321-7-1:2015, determined of Cr⁶⁺ on metal sample by boiling water extraction test method, and result is shown as Positive/Negative.

Boiling water extraction:

Negative = Absence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is less than 0.10 $\mu\text{g}/\text{cm}^2$.

Positive = Presence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is greater than 0.13 $\mu\text{g}/\text{cm}^2$.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr⁶⁺ results represent status of the sample at the time of testing.

(10)RoHS Requirement

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di(2-ethylhexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Di-iso-butyl phthalate (DIBP)	0.1% (1000 mg/kg)



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(11) Abbreviation:

"Pb" denotes Lead, "Cd" denotes Cadmium, "Hg" denotes Mercury, "Cr" denotes Chromium, "Cr⁶⁺" denotes Hexavalent Chromium, "Br" denotes Bromine, "PBBs" denotes Total Polybrominated Biphenyls, "PBDEs" denotes Total Polybrominated Diphenyl Ethers.

"DBP" denotes Dibutyl phthalate, "BBP" denotes Benzyl butyl phthalate (BBP), "DEHP" denotes Bis(2-ethylhexyl)-phthalate, "DIBP" denotes Diisobutyl phthalate, "PHT" denotes Phthalates.

(12) As per client's requirement, to test the specified components. The test results relate only to the components tested, and it doesn't mean that the whole product complies with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863.

(13) "△" = As per applicant's requirement, the testing was conducted based on mixed components by weight in equal ratio, results are calculated by the minimum weight of mixed components.

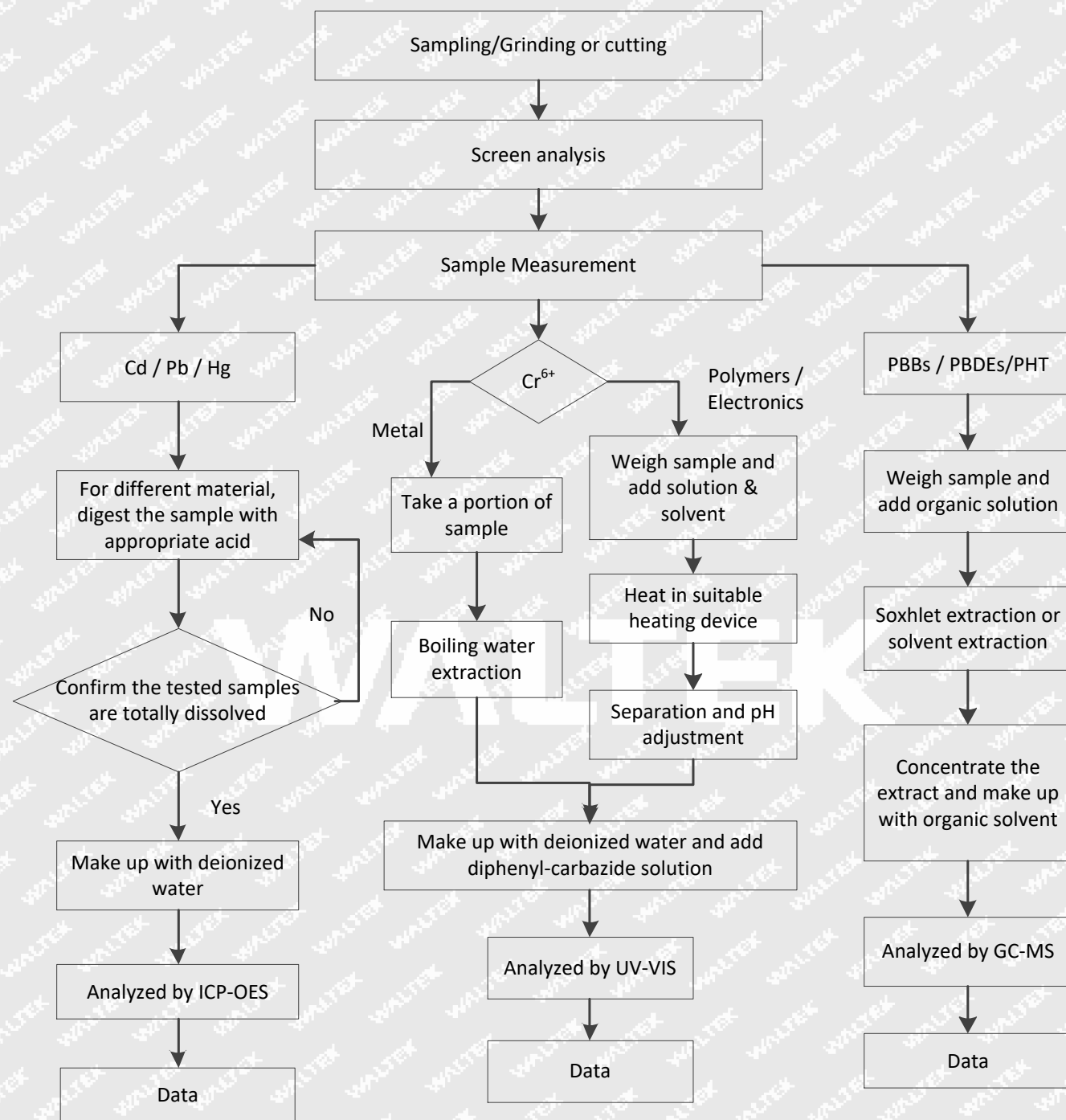
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Testing Flow chart:

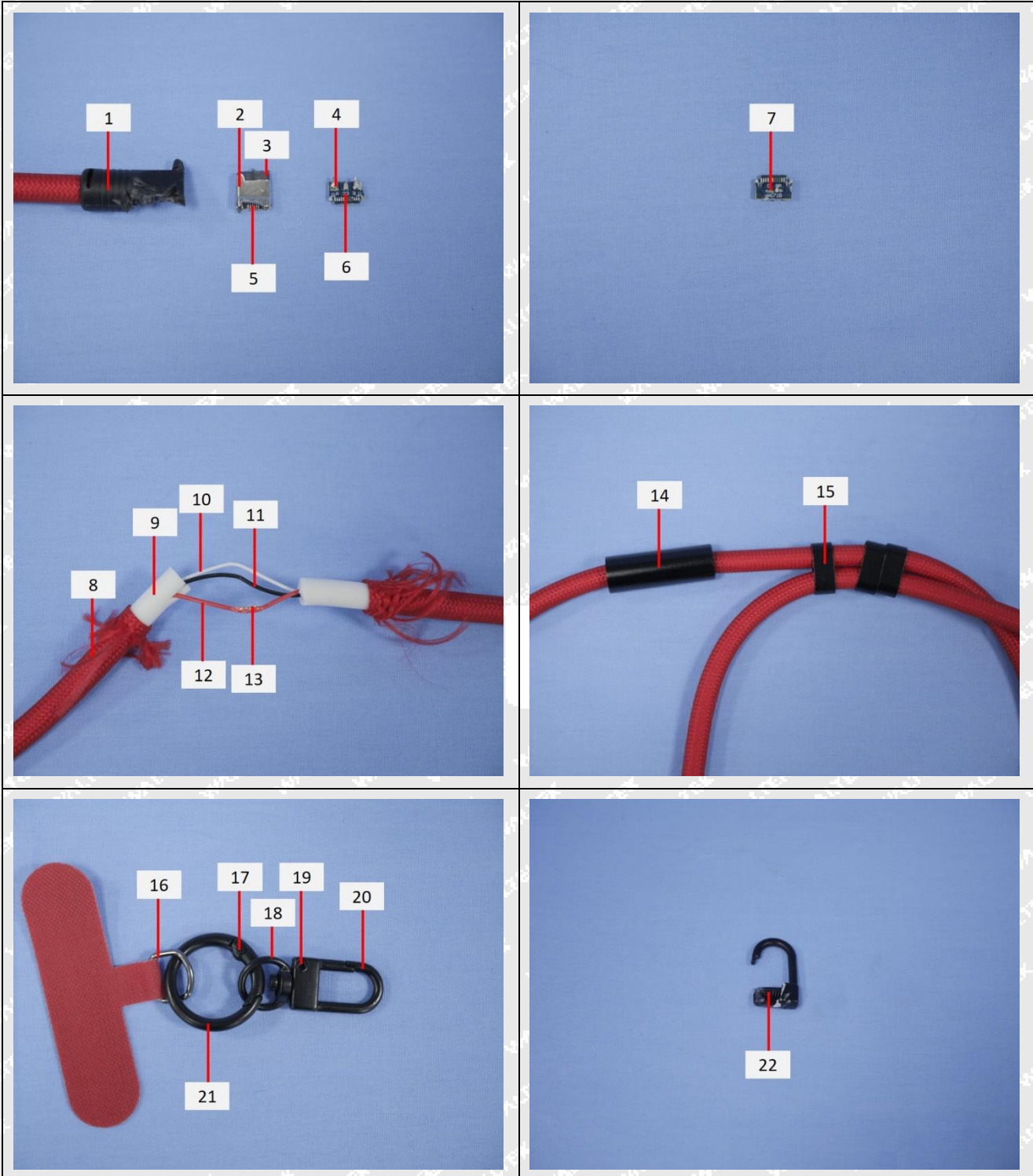




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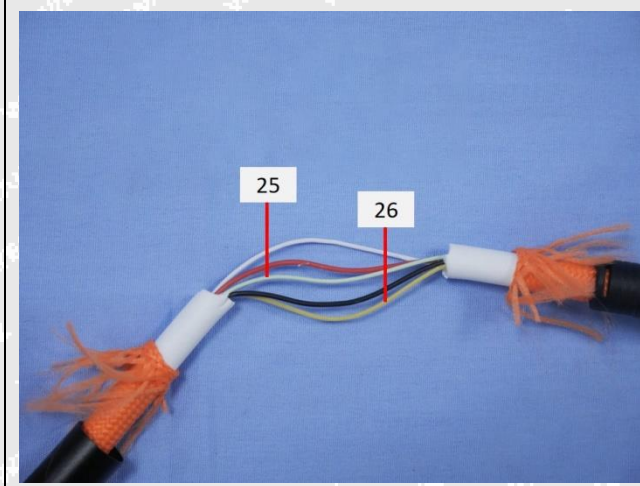
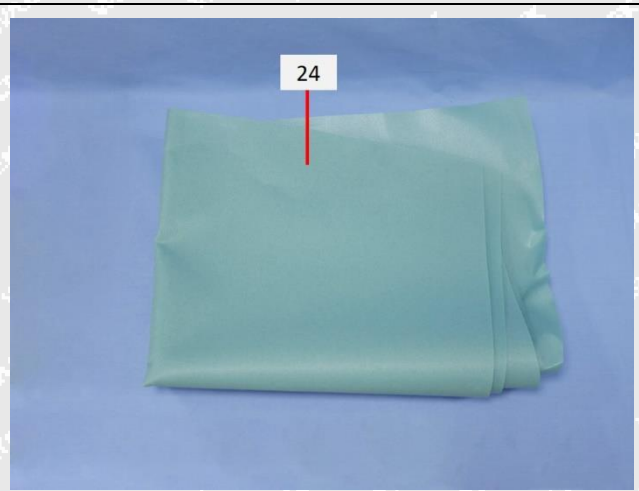
Photograph(s) of parts tested:





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Remarks:

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

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Applicant : Mid Ocean Brands B.V.
Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer : 119879
Sample Name : Charging cable lanyard and phone holder
Sample Model : MC1006, MC1007, MC2006, MC2007
Test Requested : Refer to next page (s)
Test Method : Refer to next page (s)
Test Conclusion : **Pass** (Please refer to next pages for details)
Date of Receipt Sample : 2025-07-29
Testing Period : 2025-07-29 to 2025-08-08
Date of Issue : 2025-08-08
Test Result : Refer to next page (s)
Note : As specified by client, only test the designated sample.

Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

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WTF25F07202158C

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Report No.: WTF25F07202158C

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Summary

Item No.	Test Requested	Test Conclusion
1	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	Pass
2	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).	Pass
3	As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.	Pass

Sample photo:



MC1006



MC1006



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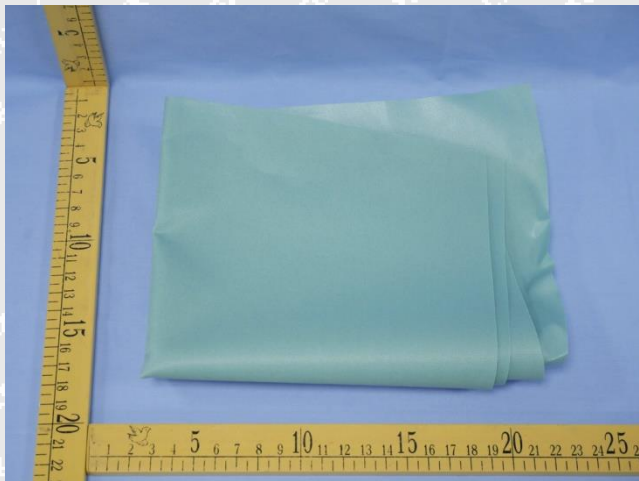
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MC1006



MC1006



MC1006



MC1007



MC2006



MC2007



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Test Results:**1) 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 (mg/kg)	Result (mg/kg)
				No.8+No.24
1	4-Aminobiphenyl	92-67-1	30	ND*
2	Benzidine	92-87-5	30	ND*
3	4-chloro-o-Toluidine	95-69-2	30	ND*
4	2-Naphthylamine	91-59-8	30	ND*
5	o-Aminoazotoluene	97-56-3	30	ND*
6	2-Amino-4-nitrotoluene	99-55-8	30	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*
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*
14	p-cresinin	120-71-8	30	ND*
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*
16	4,4'-Oxydianiline	101-80-4	30	ND*
17	4,4'-Thiodianiline	139-65-1	30	ND*
18	o-Toluidine	95-53-4	30	ND*
19	2,4-Toluylendiamine	95-80-7	30	ND*
20	2,4,5 – Trimethylaniline	137-17-7	30	ND*
21	o-anisidine	90-04-0	30	ND*
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	ND*
--	Conclusion	--	--	Pass



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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.
- “*” = As per applicant's requirement, the testing was conducted based on mixed components by weight in equal ratio, results are calculated by the minimum weight of mixed components.

2) Nickel release

Test method: With reference EN 12472:2020 & EN1811:2023, Nickel content was determined by Inductively Coupled Argon Plasma Spectrometry

Item No.	Sample Area (cm ²)	Volume of Test Solution(ml)	Nickel release (µg/cm ² /week)				Conclusion
			Trial 1	Trial 2	Trial 3	Average	
No.14	85.00	90	ND	ND	ND	ND	Pass
No.15	23.20	24	ND	ND	ND	ND	Pass
No.16	23.40	24	ND	ND	ND	ND	Pass
No.23	93.36	97	ND	ND	ND	ND	Pass
No.27	36.44	40	ND	ND	ND	ND	Pass
No.28	22.59	23	ND	ND	ND	ND	Pass



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Note:

- (1) $\mu\text{g}/\text{cm}^2/\text{week}$ = microgram per square centimetre per week
- (2) Limit of quantitation = $0.05 \mu\text{g}/\text{cm}^2/\text{week}$
- (3) ND = Not Detected or lower than limit of quantitation
- (4) Interpretation of test results:

Type of sample	Nickel Release($\mu\text{g}/\text{cm}^2/\text{week}$)	
	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

3) Colour Fastness to Rubbing

Colour Fastness to Rubbing				
(ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.)				
		No.8	No.24	Client's Limit
Length	Dry staining	4-5	4-5	2-3
	Wet staining	4-5	4-5	2-3
Width	Dry staining	--	4-5	2-3
	Wet staining	--	4-5	2-3
Conclusion		Pass	Pass	--

Note:

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



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Description for Specimen:

Specimen ID	Specimen No.	Specimen Description
FSW2507291481CJ. 8	8	Red fibrous jacket
FSW2507291481CJ. 14	14	Silvery metal ring with black surface
FSW2507291481CJ. 15	15	Silvery metal ring with black surface
FSW2507291481CJ. 16	16	Dark silvery metal ring
FSW2507291481CJ. 23	23	Silvery metal ring with black-white surface
FSW2507291481CJ. 24	24	Green fibrous sheet with transparent plastic sheet
FSW2507291481CJ. 27	27	Silvery metal part with black surface (whole test)
FSW2507291481CJ. 28	28	Silvery metal part with black surface (whole test)

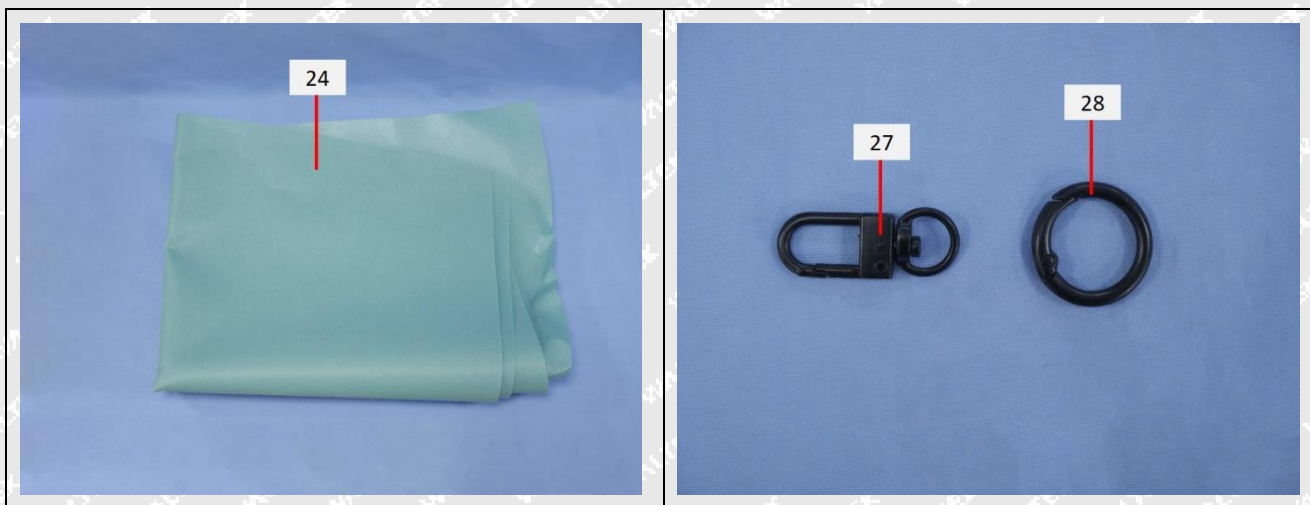
Photograph of parts tested:





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