



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Report No. : WTF23F01006844C

Applicant : Mid Ocean Brands B.V.

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

Manufacturer : 109328

Sample Name : Refer to next page (s)

Sample Model : Refer to next page (s)

Test Requested : 1) 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
2) Determination of specified Polycyclic Aromatic
Hydrocarbons (PAHs) content in submitted sample in
accordance with Entries 50 of Annex XVII of REACH
Regulation (EC) No 1907/2006 and its amendment
Regulation (EU) No 1272/2013.
3) 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)

Test Conclusion : Refer to next page (s)

Date of Receipt sample : 2023-01-12

Testing period : 2023-01-12 to 2023-03-07

Date of Issue : 2023-03-08

Test Result : Refer to next page (s)

Note : As specified by client, only test the designated sample.

Prepared By:

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Signed for and on behalf of
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Swing Liang

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| Specimen No. | Specimen Description | Sample Name | Sample Model |
|--------------|--------------------------|-------------------------------|--------------|
| 1 | Silvery metal buckle | Sports and health smart watch | MO6166 |
| 2 | Silvery metal sheet | | |
| 3 | Black soft plastic sheet | | |

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Sample photo:



MO6166

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Test Results:

1) Phthalates

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

| Test Items | LOQ (%) | Results (%) | Limit (%) |
|--------------------------------------|---------|-------------|-------------------------------|
| | | No.3 | |
| Benzyl butyl phthalate (BBP) | 0.005 | ND | sum of four phthalates < 0.1 |
| Di (2-ethyl hexyl)- phthalate (DEHP) | 0.005 | 0.010 | |
| Dibutyl phthalate (DBP) | 0.005 | ND | |
| Diisobutyl phthalate (DIBP) | 0.005 | ND | |
| Diisodecyl phthalate (DIDP) | 0.01 | ND | sum of three phthalates < 0.1 |
| Diisononyl phthalate (DINP) | 0.01 | ND | |
| Di-n-octyl phthalate (DNOP) | 0.005 | ND | |
| Conclusion | -- | Pass | -- |

Note:

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DINP= Di-isononyl phthalate

DNOP= Di-n-octyl phthalate

DIDP= Di-isodecyl phthalate

DIBP= Diisobutyl 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.



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2) Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AFPS GS 2019:01 PAK method, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS).

| Test Items | Unit | Results | LOQ | Limit |
|---|-------|---------|-----|-------|
| | | No.3 | | |
| Benzo(a)anthracene (BaA) | mg/kg | ND | 0.2 | 1.0 |
| Chrysene (CHR) | mg/kg | ND | 0.2 | 1.0 |
| Benzo[b]fluoranthene (BbFA) | mg/kg | ND | 0.2 | 1.0 |
| Benzo[k]fluoranthene (BkFA) | mg/kg | ND | 0.2 | 1.0 |
| Benzo(a)pyrene (BaP) | mg/kg | ND | 0.2 | 1.0 |
| Dibenzo[a,h]anthracene (DBA _h A) | mg/kg | ND | 0.2 | 1.0 |
| Benzo[j]fluoranthene (BjFA) | mg/kg | ND | 0.2 | 1.0 |
| Benzo[e]Pyrene (BeP) | mg/kg | ND | 0.2 | 1.0 |
| Conclusion | -- | Pass | -- | -- |

Note:

- (1) ND = Not Detected or lower than limit of quantitation
- (2) mg/kg=milligram per kilogram=ppm
- (3) LOQ = Limit of quantitation
- (4) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Articles shall not be placed on the market for supply to the general public, if any of their 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, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs.
- (5) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their 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, under normal or reasonably foreseeable conditions of use, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.



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3) 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 (cm ²) | Volume of Test Solution(ml) | Nickel release (μg/cm ² /week) | | | | Conclusion |
|----------|--------------------------------|-----------------------------|---|---------|---------|---------|------------|
| | | | Trial 1 | Trial 2 | Trial 3 | Average | |
| No.1 | 11.07 | 10 | ND | ND | ND | ND | Pass |
| No.2 | 10.38 | 10 | ND | ND | ND | ND | Pass |

Note:

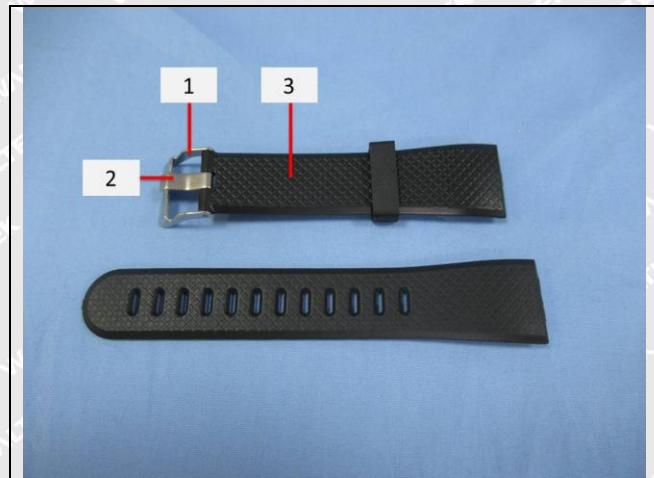
- (1) μg/cm²/week = microgram per square centimetre per week
- (2) Method Detection limit = 0.05 μg/cm²/week
- (3) ND = Not detected or less than the value of Method Detection Limit
- (4) Interpretation of test results:

| Type of sample | Nickel Release(μg/cm ² /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 |



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Photograph of parts tested:



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Remarks:

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

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