



TEST REPORT

Reference No. : WTF19F12085913C
Applicant : Mid Ocean Brands B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer : 114284
Sample Name : 600D sportsbag
Model No. : MO9013
Test Requested : 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
2) 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
3) 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.

Test Method : Please refer to next page (s)

Test Conclusion : Please refer to next page (s)

Date of Receipt sample : 2019-12-10

Date of Test : 2019-12-10 to 2019-12-19

Date of Issue : 2019-12-23

Test Result : Please refer to next page (s)

Remarks:

The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.
If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

Prepared By:

Waltek Services (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

Compiled by:

Rena Chen

Rena.Chen / Project Engineer

Approved by:



Swing Liang

Swing.Liang / Lab Manager

**Test Result:****1) Lead (Pb)**

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

| Test Item | MDL (mg/kg) | Results (mg/kg) | | | Limit (mg/kg) |
|-------------------|----------------|-----------------|-------------|-------------|------------------|
| | | No.1 | No.2 | No.3 | |
| Lead(Pb) | 2 | ND | ND | 21 | 500 |
| Conclusion | -- | Pass | Pass | Pass | -- |

| Test Item | MDL (mg/kg) | Results (mg/kg) | | | Limit (mg/kg) |
|-------------------|----------------|-----------------|-------------|-------------|------------------|
| | | No.4 | No.5 | No.6 | |
| Lead(Pb) | 2 | ND | ND | ND | 500 |
| Conclusion | -- | Pass | Pass | Pass | -- |

| Test Item | MDL (mg/kg) | Results (mg/kg) | | | Limit (mg/kg) |
|-------------------|----------------|-----------------|-------------|-------------|------------------|
| | | No.7 | No.8 | No.9 | |
| Lead(Pb) | 2 | ND | 71 | ND | 500 |
| Conclusion | -- | Pass | Pass | Pass | -- |

| Test Item | MDL (mg/kg) | Results (mg/kg) | | | | Limit (mg/kg) |
|-------------------|----------------|-----------------|-------------|-------------|-------------|------------------|
| | | No.10 | No.11 | No.12 | No.13 | |
| Lead(Pb) | 2 | 21 | ND | ND | ND | 500 |
| Conclusion | -- | Pass | Pass | Pass | Pass | -- |

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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.



2) Cadmium (Cd)

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

| Test Item | MDL (mg/kg) | Results (mg/kg) | | |
|-------------------|----------------|-----------------|-------------|-------------|
| | | No.3 | No.4 | No.8 |
| Cadmium(Cd) | 2 | ND | ND | ND |
| Conclusion | -- | Pass | Pass | Pass |

| Test Item | MDL (mg/kg) | Results (mg/kg) | | |
|-------------------|----------------|-----------------|-------------|-------------|
| | | No.9 | No.10 | No.11 |
| Cadmium(Cd) | 2 | ND | ND | ND |
| Conclusion | -- | Pass | Pass | Pass |

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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 |

WALTEK



3) Phthalates

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

| Test Items | MDL (%) | Results (%) | | | Limit (%) |
|--------------------------------------|---------|-------------|-------------|-------------|-------------------------------|
| | | No.3 | No.4 | No.8 | |
| Benzyl butyl phthalate (BBP) | 0.005 | ND | ND | ND | sum of four phthalates < 0.1 |
| Di (2-ethyl hexyl)- phthalate (DEHP) | 0.005 | 0.036 | 0.008 | 0.053 | |
| Dibutyl phthalate (DBP) | 0.005 | ND | ND | ND | |
| Diisobutyl phthalate (DIBP) | 0.005 | ND | ND | ND | |
| Diisodecyl phthalate (DIDP) | 0.01 | ND | ND | ND | sum of three phthalates < 0.1 |
| Diisononyl phthalate (DINP) | 0.01 | ND | ND | 0.023 | |
| Di-n-octyl phthalate (DNOP) | 0.005 | ND | ND | ND | |
| Conclusion | -- | Pass | Pass | 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 Less than the method detection limit

(3) MDL=Method Detection Limit

(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.

**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. | Amines Substances | CAS No. | Limit (mg/kg) | Result (mg/kg) | | |
|-------------------|---|----------|---------------|----------------|-------------|-------------|
| | | | | No.1 | No.2 | No.5 |
| 1 | 4-Aminobiphenyl | 92-67-1 | 30 | ND | ND | ND |
| 2 | Benidine | 92-87-5 | 30 | ND | ND | ND |
| 3 | 4-chloro-o-Toluidine | 95-69-2 | 30 | ND | ND | ND |
| 4 | 2-Naphthylamine | 91-59-8 | 30 | ND | ND | ND |
| 5 | o-Aminoazotoluene | 97-56-3 | 30 | ND | ND | ND |
| 6 | 2-Amino-4-nitrotoluene | 99-55-8 | 30 | ND | ND | ND |
| 7 | p-Chloroaniline | 106-47-8 | 30 | ND | ND | ND |
| 8 | 2,4-diaminoanisol | 615-05-4 | 30 | ND | ND | 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 | ND |
| 12 | 3,3'-Dimethylbenzidine | 119-93-7 | 30 | ND | 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 |
| 17 | 4,4'-Thiodianiline | 139-65-1 | 30 | ND | ND | ND |
| 18 | o-Toluidine | 95-53-4 | 30 | ND | ND | ND |
| 19 | 2,4-Toluylendiamine | 95-80-7 | 30 | ND | ND | ND |
| 20 | 2,4,5 – Trimethylaniline | 137-17-7 | 30 | ND | ND | ND |
| 21 | o-anisidine | 90-04-0 | 30 | ND | ND | ND |
| 22 | 4-aminoazobenzene | 60-09-3 | 30 | ND | ND | ND |
| 23 | 2,4-Xylidin | 95-68-1 | 30 | ND | ND | ND |
| 24 | 2,6-Xylidin | 87-62-7 | 30 | ND | ND | ND |
| Conclusion | | -- | -- | Pass | Pass | Pass |



| No. | Amines Substances | CAS No. | Limit (mg/kg) | Result (mg/kg) | |
|-------------------|---|----------|---------------|----------------|-------------|
| | | | | No.6 | No.13 |
| 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 | 30 | 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 | 30 | 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 | ND | ND |
| 12 | 3,3'-Dimethylbenzidine | 119-93-7 | 30 | ND | ND |
| 13 | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | 30 | ND | ND |
| 14 | p-cresinin | 120-71-8 | 30 | 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 | | -- | -- | Pass | Pass |

Note:

- ND = Not detected or less than the method detection limit
- mg/kg=Milligram per kilogram
- Method Detection Limit (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



5) Colour Fastness to Rubbing

| Colour Fastness to Rubbing | | | | | |
|--|-------------|-------------|------------------|--------------|-----------------------|
| (ISO 105 X12: 2001/Cor 2002; Size of rubbing finger: 16mm diameter.) | | | | | |
| | No.1 | No.2 | No.5+No.6 | No.13 | Client's Limit |
| Dry staining | 4 | 4-5 | 4-5 | 4-5 | 2-3 |
| Wet staining | 4-5 | 4-5 | 4-5 | 4-5 | 2-3 |
| Conclusion | Pass | Pass | 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.

Test Specimen Description:

- No.1: Black fabric handle
- No.2: Black main fabric
- No.3: Black plastic foot pad
- No.4: Black plastic buckle
- No.5: Black fabric net
- No.6: Black fabric rim
- No.7: Black drawstring
- No.8: Black plastic buckle
- No.9: Black plastic zipper tooth
- No.10: Silvery metal zipper head with black coating
- No.11: Black plastic hook of VELCRO
- No.12: Black plastic loop of VELCRO
- No.13: Black lining fabric

WALTEK

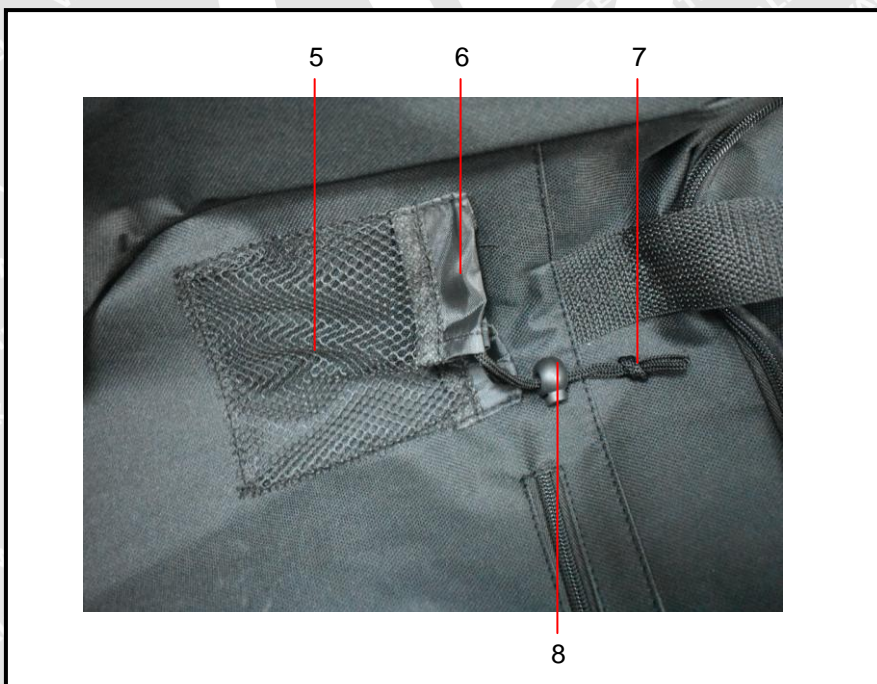


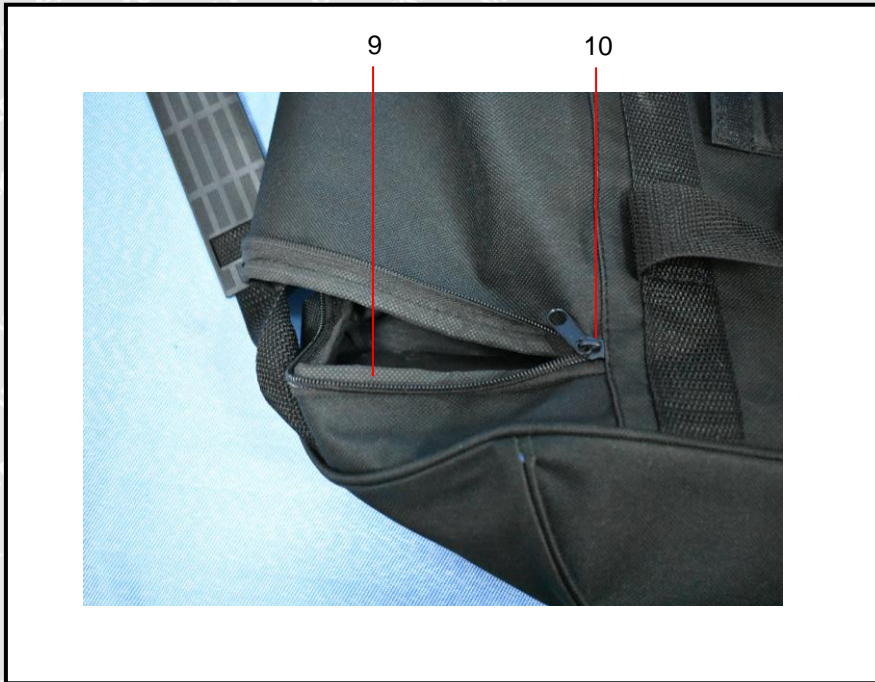
Sample photo:



Photographs of parts tested:









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

WALTEK