



TEST REPORT

Reference No. : WTF21F12133564R1C
Applicant : Mid Ocean Brands B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,
Hong Kong
Manufacturer : 111903
Sample Name : Canvas shopping bag
Model No. : MO6442
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) 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).
4) 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 : 2021-12-02 & 2022-09-23
Date of Test : 2021-12-02 to 2021-12-10 & 2022-09-23 to 2022-09-30
Date of Issue : 2022-10-10
Test Result : Please refer to next page (s)
Note : 1) As specified by client, only test the designated sample.
2) As per client's requirement, results of specimen from No.1 to No.4 are
quoted from report No.WTF21F12133564C specimen from No.1 to No.4.

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.

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

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

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | Limit (mg/kg) |
|-------------------|----------------|-----------------|-------------|------------------|
| | | No.1+No.2+No.4 | No.3 | |
| Lead(Pb) | 2 | ND* | ND | 500 |
| Conclusion | -- | Pass | Pass | -- |

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | Limit (mg/kg) |
|-------------------|----------------|-----------------|-------------|------------------|
| | | No.5+No.6 | No.7+No.8 | |
| Lead(Pb) | 2 | ND* | ND* | 500 |
| Conclusion | -- | Pass | Pass | -- |

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected or lower than limit of quantitation
- (3) LOQ = Limit of quantitation
- (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.
- (5) "*" = Results are calculated by the minimum weight of mixed components.



2) Cadmium (Cd)

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

| Test Item | LOQ (mg/kg) | Results (mg/kg) | |
|-------------------|----------------|-----------------|-------------|
| | | No.5+No.6 | No.7+No.8 |
| Cadmium(Cd) | 2 | ND* | ND* |
| Conclusion | -- | Pass | Pass |

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (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 |

- (5) "*" = Results are calculated by the minimum weight of mixed components.

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**3) 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.4 |
| 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 |



| No. | Amines Substances | CAS No. | Limit (mg/kg) | Result (mg/kg) |
|-------------------|---|----------|---------------|----------------|
| | | | | No.5+No.6 |
| 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 |



| No. | Amines Substances | CAS No. | Limit (mg/kg) | Result (mg/kg) |
|-------------------|---|----------|---------------|----------------|
| | | | | No.7+No.8 |
| 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 |

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.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006
- "*" = Results are calculated by the minimum weight of mixed components.



4) Colour Fastness to Rubbing

| Colour Fastness to Rubbing | | | | | |
|---|--------------|-------------|-------------|-------------|----------------|
| (ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.) | | | | | |
| | | No.1 | No.2 | No.4 | Client's Limit |
| Length | Dry staining | 4-5 | 4-5 | 4-5 | 2-3 |
| | Wet staining | 3-4 | 3-4 | 3-4 | 2-3 |
| Width | Dry staining | 4-5 | 4-5 | 4-5 | 2-3 |
| | Wet staining | 3-4 | 3-4 | 3-4 | 2-3 |
| Conclusion | | Pass | Pass | Pass | -- |

| Colour Fastness to Rubbing | | | | | | |
|---|--------------|-------------|-------------|-------------|-------------|----------------|
| (ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.) | | | | | | |
| | | No.5 | No.6 | No.7 | No.8 | Client's Limit |
| Length | Dry staining | 4-5 | 4-5 | 4-5 | 4-5 | 2-3 |
| | Wet staining | 4 | 3 | 3-4 | 4 | 2-3 |
| Width | Dry staining | 4-5 | 4-5 | 4-5 | 4-5 | 2-3 |
| | Wet staining | 4 | 3 | 3-4 | 4 | 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.

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Test Specimen Description:

- No.1: Black fabric
- No.2: Red fabric
- No.3: White fabric
- No.4: Blue fabric
- No.5: Grey fabric
- No.6: Light blue fabric
- No.7: Blue fabric
- No.8: Dark grey fabric



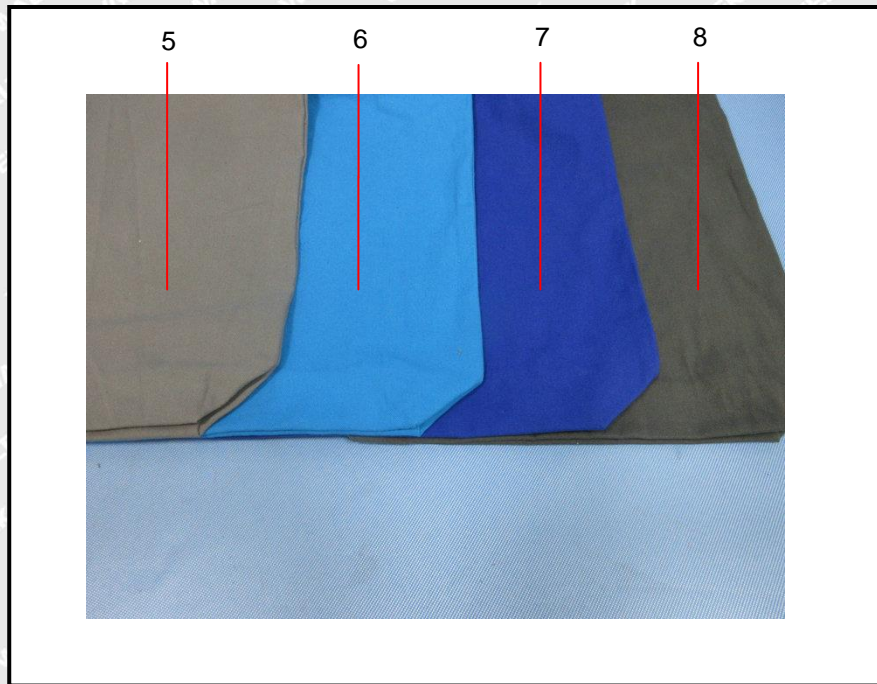
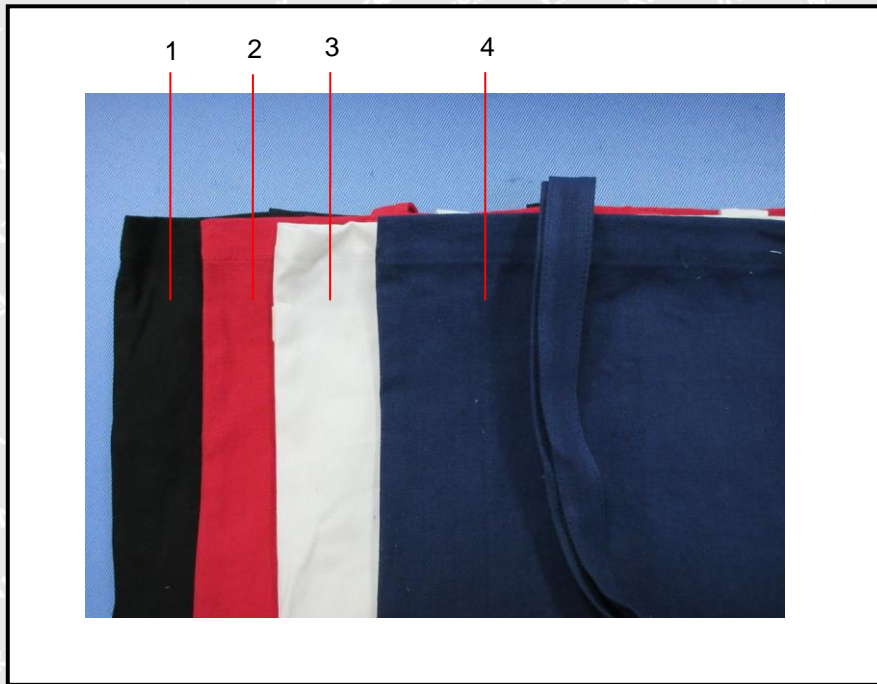
Sample photo:







Photograph of parts tested:



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