



TEST REPORT

Report No. : WTF23F05105686C
Applicant : Mid Ocean Brands B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,
Kowloon, Hong Kong
Manufacturer : 107927
Sample Name : 600D RPET Computer backpack, 600D RPET Computer
backpack, 600D RPET Computer bag
Sample Model : MO2046, MO2047, MO2048
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 Conclusion : Refer to next page (s)
Date of Receipt sample : 2023-05-16
Testing period : 2023-05-16 to 2023-05-23
Date of Issue : 2023-05-24
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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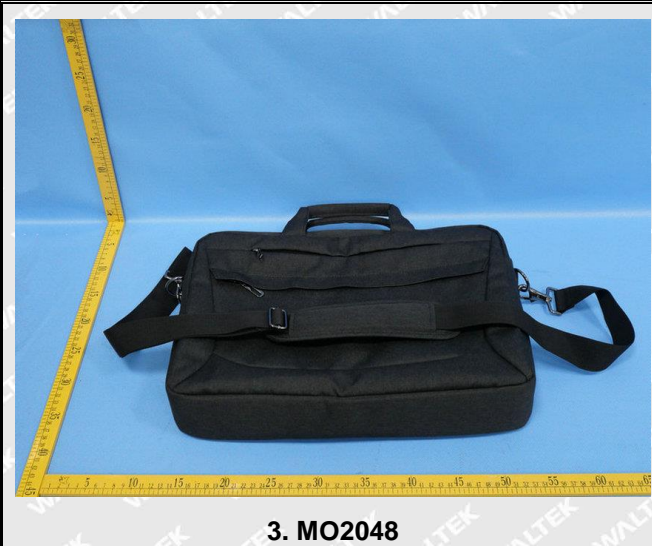
Sample photo:



1. MO2046



2. MO2047



3. MO2048





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Test Results:

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.5+No.7 | |
| Lead(Pb) | 2 | ND | ND* | 500 |
| Conclusion | -- | Pass | Pass | -- |

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | | Limit (mg/kg) |
|-------------------|-------------|-----------------|-------------|-------------|---------------|
| | | No.3+No.8 | No.4+No.9 | No.6 | |
| Lead(Pb) | 2 | ND* | 53* | 15 | 500 |
| Conclusion | -- | Pass | Pass | Pass | -- |

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | | Limit (mg/kg) |
|-------------------|-------------|-----------------|-------------|-------------|---------------|
| | | No.10+No.11 | No.12+No.15 | No.13+No.14 | |
| Lead(Pb) | 2 | ND* | ND* | ND* | 500 |
| Conclusion | -- | Pass | Pass | Pass | -- |

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | | Limit (mg/kg) |
|-------------------|-------------|-----------------|-------------|-------------|---------------|
| | | No.16+No.17 | No.18 | No.19+No.22 | |
| Lead(Pb) | 2 | 16* | ND | ND* | 500 |
| Conclusion | -- | Pass | Pass | Pass | -- |

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | Limit (mg/kg) |
|-------------------|-------------|-----------------|-------------------|---------------|
| | | No.20+No.21 | No.23+No.24+No.25 | |
| Lead(Pb) | 2 | ND* | 43* | 500 |
| 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 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.



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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.3+No.8 | No.6 |
| Cadmium(Cd) | 2 | ND* | ND |
| Conclusion | -- | Pass | Pass |

| Test Item | LOQ (mg/kg) | Results (mg/kg) | |
|-------------------|----------------|-----------------|-------------|
| | | No.16+No.17 | No.18 |
| 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) Phthalates

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

| Test Items | LOQ (%) | Results (%) | | Limit (%) |
|--------------------------------------|---------|-------------|-------------|-------------------------------|
| | | No.16+No.17 | No.18 | |
| Benzyl butyl phthalate (BBP) | 0.005 | ND* | ND | sum of four phthalates < 0.1 |
| Di (2-ethyl hexyl)- phthalate (DEHP) | 0.005 | ND* | ND | |
| Dibutyl phthalate (DBP) | 0.005 | ND* | ND | |
| Diisobutyl phthalate (DIBP) | 0.005 | ND* | ND | |
| Diisodecyl phthalate (DIDP) | 0.01 | ND* | ND | sum of three phthalates < 0.1 |
| Diisononyl phthalate (DINP) | 0.01 | ND* | ND | |
| Di-n-octyl phthalate (DNOP) | 0.005 | ND* | ND | |
| Conclusion | -- | 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 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.

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



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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.10+No.11 |
| 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 |



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| No. | Amines Substances | CAS No. | Limit (mg/kg) | Result (mg/kg) | |
|-------------------|---|----------|---------------|----------------|-------------|
| | | | | No.12+No.15 | No.13+No.14 |
| 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-Toluyldiamine | 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 |



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| No. | Amines Substances | CAS No. | Limit (mg/kg) | Result (mg/kg) |
|-------------------|---|----------|---------------|----------------|
| | | | | No.19+No.22 |
| 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-Toluyldiamine | 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.



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5) Colour Fastness to Rubbing

| Colour Fastness to Rubbing | | | | | | |
|---|--------------|-------------|--------------------|--------------|--------------------|-----------------------|
| (ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.) | | | | | | |
| | | No.1 | No.10+No.11 | No.12 | No.13+No.14 | Client's Limit |
| Length | Dry staining | 4-5 | 4-5* | 4-5 | 4-5* | 2-3 |
| | Wet staining | 4-5 | 4-5* | 4-5 | 4-5* | 2-3 |
| Width | Dry staining | -- | -- | -- | -- | 2-3 |
| | Wet staining | -- | -- | -- | -- | 2-3 |
| Conclusion | | Pass | Pass | Pass | Pass | -- |

| Colour Fastness to Rubbing | | | | | |
|---|--------------|--------------|--------------|--------------|-----------------------|
| (ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.) | | | | | |
| | | No.15 | No.19 | No.22 | Client's Limit |
| Length | Dry staining | 4-5 | 4-5 | 3 | 2-3 |
| | Wet staining | 4-5 | 4-5 | 3 | 2-3 |
| Width | Dry staining | -- | -- | -- | 2-3 |
| | Wet staining | -- | -- | -- | 2-3 |
| Conclusion | | 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.
- (2) "*" = As per applicant's requirement, the testing was conducted based on mixed components.



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Description for Specimen:

| Specimen No. | Specimen Description |
|---------------------|--|
| 1 | Black grey main fabric |
| 2 | Black zipper fabric |
| 3 | Black plastic zipper tooth |
| 4 | Silvery metal zipper head |
| 5 | Black zipper fabric |
| 6 | Silvery metal zipper head with black coating |
| 7 | Black zipper fabric |
| 8 | Black plastic zipper tooth |
| 9 | Silvery metal zipper head |
| 10 | Black net fabric |
| 11 | Black elastic band |
| 12 | Grey net fabric |
| 13 | Grey net fabric |
| 14 | Grey elastic band |
| 15 | Black net fabric |
| 16 | Black plastic buckle |
| 17 | Black plastic buckle |
| 18 | Grey plastic shell |
| 19 | Grey lining |
| 20 | Grey rim fabric |
| 21 | Black rim fabric |
| 22 | Black fabric sheet |
| 23 | Silvery metal buckle |
| 24 | Silvery metal buckle |
| 25 | Silvery metal buckle |



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Photograph of parts tested:





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Remarks:

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

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