

Test Report

Report No. : AGC05443231015-001

SAMPLE NAME : Recycled PU A5 lined notebook

MODEL NAME : MO6835

APPLICANT: MID OCEAN BRANDS B.V

STANDARD(S) : Please refer to the following page(s).

DATE OF ISSUE : Oct. 19, 2023

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.





Report No.: AGC05443231015-001

Applicant: MID OCEAN BRANDS B.V

Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street,

Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name : Recycled PU A5 lined notebook

Model : MO6835

Vendor code : 116737

Country of Origin : CHINA

Country of Destination : EUROPE

Sample Received Date : Oct. 13, 2023

Testing Period : Oct. 13, 2023 to Oct. 18, 2023

Test Requested : Selected test(s) as requested by client.

Test Requested: Conclusion

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63

- Lead(Pb) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

-Cadmium(Cd) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52

- Phthalates Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 47

- Chromium VI compounds Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43

- Aromatic Amines Azodyes (AZO) Content

Pass

- Color fastness to rubbing

Pass

Approved by : Jossie Liang

Liangdan, Jessie.Liang

Technical Director



Oct. 19, 2023

Valid

| Report Revise Record | | | | | | | |
|----------------------|-------------|---------------|-------|--|--|--|--|
| Report Version | Issued Date | Valid Version | Notes | | | | |

Report No.: AGC05443231015-001

Initial release



The photo of the sample



The photo of AGC05443231015-001 is for use only with the original report.

Test Point Description

| Test point | Test point description |
|------------|--|
| 1-1 | Inner sheet paper |
| 1-2 | Orange cover+Lime cover |
| 1-3 | Turquoise cover+Royal blue cover |
| 1-4 | Orange elastic band+Lime elastic band |
| 1-5 | Turquoise elastic band+Royal blue elastic band |
| 1-6 | Orange ribbon+Lime ribbon |
| 1-7 | Turquoise ribbon+Royal blue ribbon |
| 1-8 | Orange elastic band |
| 1-9 | Lime elastic band |
| 1-10 | Turquoise elastic band |
| 1-11 | Royal blue elastic band |
| 1-12 | Orange ribbon |
| 1-13 | Lime ribbon |
| 1-14 | Turquoise ribbon |
| 1-15 | Royal blue ribbon |



Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63

- Lead(Pb) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

| Tost Itam(s) | Unit Limit | | MDL | Test Result(s) | | | |
|--------------|------------|------------|------------|----------------|------|------|--|
| Test Item(s) | Omi | LIIIII | MIDL | 1-1 | 1-2 | 1-3 | |
| Lead(Pb) | mg/kg | 500 | 10 | N.D. | N.D. | N.D. | |
| Con | Conformity | Conformity | Conformity | | | | |

| Test Item(s) | Unit Limit | | MDL | Test Result(s) | | | |
|----------------|------------|------------|------------|----------------|------|------|--|
| Test Itelli(s) | Omi | Limit | MIDL | 1-4 | 1-5 | 1-6 | |
| Lead(Pb) | mg/kg | 500 | 10 | N.D. | N.D. | N.D. | |
| Con | Conformity | Conformity | Conformity | | | | |

| Test Item(s) | Linit | Limit | MDL | Test Result(s) | |
|--------------|------------|--------|-----|----------------|--|
| Test Item(s) | Unit | Lillit | MDL | 1-7 | |
| Lead(Pb) | mg/kg | 500 | 10 | N.D. | |
| Co | Conformity | | | | |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-2,1-3,1-4,1-5,1-6,1-7

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

-Cadmium(Cd) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

| Tost Itom(s) | Unit Limit | | MDL | Test Result(s) | |
|--------------|------------|------------|-----|----------------|------|
| Test Item(s) | Unit | Limit | MDL | 1-2 | 1-3 |
| Cadmium(Cd) | mg/kg | 100 | 10 | N.D. | N.D. |
| Со | Conformity | Conformity | | | |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-2,1-3



Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52

- Phthalates Content

Test Methods and Equipment: IEC 62321-8:2017; GC-MS

| Toot Itaur(a) | T Init | Limit | MDI | Test Result(s) | | |
|--|------------|------------|-------|----------------|------|--|
| Test Item(s) | Unit | Limit | MDL | 1-2 | 1-3 | |
| Diisobutyl phthalate (DIBP) CAS:84-69-5 | % | 0.1 | 0.005 | N.D. | N.D. | |
| Dibutyl phthalate (DBP) CAS:84-74-2 | % | 0.1 | 0.005 | N.D. | N.D. | |
| Butylbenzyl phthalate (BBP) CAS:85-68-7 | % | 0.1 | 0.005 | N.D. | N.D. | |
| Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7 | % | 0.1 | 0.005 | N.D. | N.D. | |
| Di-n-octyl phthalate (DNOP) CAS:117-84-0 | % | / | 0.005 | N.D. | N.D. | |
| Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0 | % | / | 0.005 | N.D. | N.D. | |
| Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1 | % | / | 0.005 | N.D. | N.D. | |
| Sum of DIBP +DBP+BBP+DEHP | % | 0.1 | / | N.D. | N.D. | |
| Sum of DNOP+DINP+DIDP | % | 0.1 | / | N.D. | N.D. | |
| Con | Conformity | Conformity | | | | |

Remark:

Limit requirements of Phthalates

| Toys and childcare articles | Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1% |
|--|--|
| Toys and childcare articles which can be placed in the mouth by children | The sum of DINP+DIDP+DNOP is less than 0.1% |

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | |
|-----------------------------|----------|--------|-----|----------------|------------|
| rest item(s) | Unit | LIIIII | MDL | 1-2 | 1-3 |
| Benzo[a]pyrene(BaP) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[e]pyrene(BeP) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[a]anthracene(BaA) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[b]fluoranthene(BbF) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[j]fluoranthene(BjFA) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[k]fluoranthene(BkF) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Chrysene(CHR) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Dibenzo[a,h]anthracene(DBA) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Co | nclusion | | | Conformity | Conformity |

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Report No.: AGC05443231015-001

^{1.} As specified by client, the submitted samples were mixed to test, the test points: 1-2,1-3



Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-2,1-3

Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

| Items | CAS No. | Extender oils or used for the production of tyres or parts of tyres | 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 | Toys, including activity toys, and childcare articles, 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 |
|---|----------|---|--|---|
| Benzo[a]pyrene(BaP) | 50-32-8 | ≤ 1 | ≤ 1 | ≤ 0.5 |
| Benzo[e]pyrene(BeP) | 192-97-2 | / | ≤ 1 | ≤ 0.5 |
| Benzo[a]anthracene(BaA) | 56-55-3 | / | ≤ 1 | ≤ 0.5 |
| Benzo[b]fluoranthene(BbF) | 205-99-2 | / | ≤ 1 | ≤ 0.5 |
| Benzo[j]fluoranthene(BjFA) | 205-82-3 | / | ≤ 1 | ≤ 0.5 |
| Benzo[k]fluoranthene(BkF) | 207-08-9 | / | ≤ 1 | ≤ 0.5 |
| Chrysene(CHR) | 218-01-9 | / | ≤ 1 | ≤ 0.5 |
| Dibenzo[a,h]anthracene(DBA) | 53-70-3 | / | ≤ 1 | ≤ 0.5 |
| Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA | / | ≤ 10 | / | / |

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 47

- Chromium VI compounds Content

Test Methods and Equipment: ISO 17075-1:2017; UV-Vis

| Tost Itam(s) | Unit | Limit | MDL | Test Result(s) | | |
|-----------------------|------------|------------|-----|----------------|------|--|
| Test Item(s) | Ollit | | | 1-2 | 1-3 | |
| Chromium VI compounds | mg/kg | 3 | 3 | N.D. | N.D. | |
| Con | Conformity | Conformity | | | | |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-2,1-3

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43

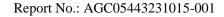
- Aromatic Amines Azodyes (AZO) Content

Test Methods and Equipment: EN ISO 14362-1:2017; GC-MS

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | | |
|--|---------|--------|------|----------------|------------|------------|
| . , , | Oilit | LIIIII | MIDL | 1-2 | 1-3 | 1-4 |
| 4-Aminobiphenyl CAS:92-67-1 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| Benzidine CAS:92-87-5 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 4-Chloro-o-toluidine CAS:95-69-2 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 2-Naphthylamine CAS:91-59-8 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| o-Aminoazotoluene CAS:97-56-3 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 5-Nitro-o-toluidine CAS:99-55-8 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| p-Chloroaniline CAS:106-47-8 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 4-Methoxy-m-phenylenediamine CAS:615-05-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 4,4'-Diaminodiphenylmethane CAS:101-77-9 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 3,3'-Dichlorobenzidine CAS:91-94-1 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 3,3'-Dimethoxybenzidine CAS:119-90-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 3,3'-Dimethybenzidine CAS:119-93-7 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 4,4'-Methylenedi-o-toluidine CAS:838-88-0 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| p-Cresidine CAS:120-71-8 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 4,4'-Methylenebis[2- chloroaniline] CAS:101-14-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 4,4'-Oxydianiline CAS:101-80-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 4,4'-Thiodianiline CAS:139-65-1 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 2-Aminotoluene CAS:95-53-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 2,4-Toluylendiamine CAS:95-80-7 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 2,4,5-Trimethylaniline CAS:137-17-7 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| o-Anisidine CAS:90-04-0 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| 4-Aminoazobenzene CAS:60-09-3 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. |
| | clusion | | | Conformity | Conformity | Conformity |

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Report No.: AGC05443231015-001





| Toot Itams(s) | T | T | MDI | Т | Test Result(s) | | |
|--|---------|----------|-----|------------|----------------|------------|--|
| Test Item(s) | Unit | Limit | MDL | 1-5 | 1-6 | 1-7 | |
| 4-Aminobiphenyl CAS:92-67-1 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| Benzidine CAS:92-87-5 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 4-Chloro-o-toluidine CAS:95-69-2 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 2-Naphthylamine CAS:91-59-8 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| o-Aminoazotoluene CAS:97-56-3 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 5-Nitro-o-toluidine CAS:99-55-8 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| p-Chloroaniline CAS:106-47-8 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 4-Methoxy-m-phenylenediamine CAS:615-05-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 4,4'-Diaminodiphenylmethane CAS:101-77-9 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 3,3'-Dichlorobenzidine CAS:91-94-1 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 3,3'-Dimethoxybenzidine CAS:119-90-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 3,3'-Dimethybenzidine CAS:119-93-7 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 4,4'-Methylenedi-o-toluidine CAS:838-88-0 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| p-Cresidine CAS:120-71-8 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 4,4'-Methylenebis[2- chloroaniline] CAS:101-14-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 4,4'-Oxydianiline CAS:101-80-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 4,4'-Thiodianiline CAS:139-65-1 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 2-Aminotoluene CAS:95-53-4 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 2,4-Toluylendiamine CAS:95-80-7 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 2,4,5-Trimethylaniline CAS:137-17-7 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| o-Anisidine CAS:90-04-0 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| 4-Aminoazobenzene CAS:60-09-3 | mg/kg | 30 | 5 | N.D. | N.D. | N.D. | |
| | clusion | <u> </u> | | Conformity | Conformity | Conformity | |



1. As specified by client, the submitted samples were mixed to test, the test points: 1-2,1-3,1-4,1-5,1-6,1-7 Note: 4-aminoazobenzene: The EN ISO 14362-1:2017 or ISO 17234-1:2020 methods will enable further cleavage of 4-aminoazobenzene to aniline and / or 1,4-phenylenediamine. If aniline and / or 1,4-phenylenediamine are detected, 4-aminoazobenzene shall be further determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

- Color fastness to rubbing

Test Method: ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing: 21.5°C, 65 %R.H., 4 hrs

The long direction of the specimen Endwise/ Crossrange The percentage of soak of wet rubbing cloth: 95%~100%

| Test point | Test l | Conclusion | |
|------------------------------|--------------------|-------------|------------|
| | Colour fastness to | | |
| | Dry rubbing | Wet rubbing | |
| 1-8 | 4-5 | 4 | Conformity |
| 1-9 | 4-5 | 3-4 | Conformity |
| 1-10 | 4-5 | 4 | Conformity |
| 1-11 | 4-5 | 4-5 | Conformity |
| 1-12 | 4-5 | 4 | Conformity |
| 1-13 | 4-5 | 3-4 | Conformity |
| 1-14 | 4-5 | 4 | Conformity |
| 1-15 | 4-5 | 4-5 | Conformity |
| Limit (Client's Requirement) | ≥2-3 | ≥2-3 | / |

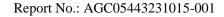
Note:

Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

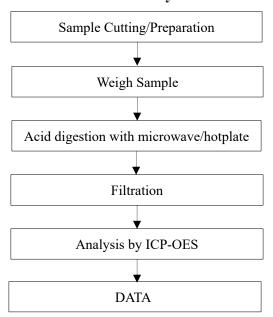
Grade 1 = Colour Change Seriously (Bad Grade)

9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.

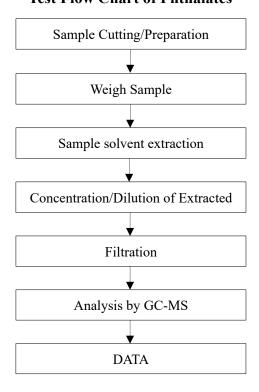


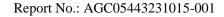


Test Flow Chart of Heavy Metal Content



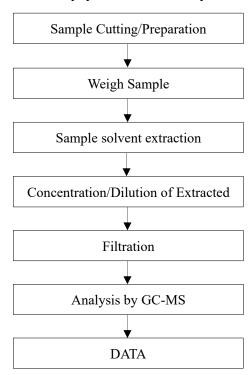
Test Flow Chart of Phthalates

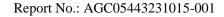






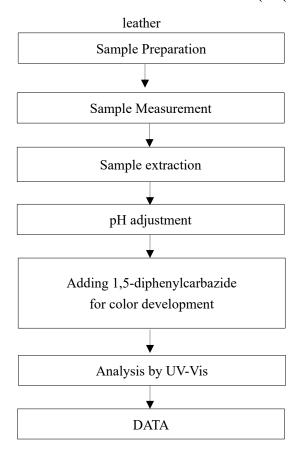
Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)

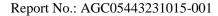






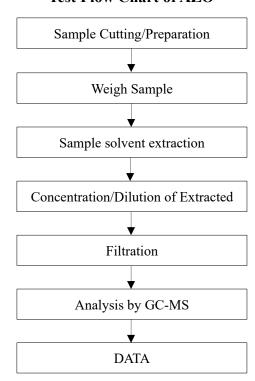
Test Flow Chart of Hexavalent Chromium (Cr(VI))







Test Flow Chart of AZO





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- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
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- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

*** End of Report ***