
Test Report

Report No. : AGC05443241017-001

SAMPLE NAME : Glass Bottle in pouch
MODEL NAME : MO6845
APPLICANT : MID OCEAN BRANDS B.V.
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Oct. 28, 2024

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Report No.: AGC05443241017-001

Applicant : MID OCEAN BRANDS B.V.
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site : 5,6/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 : Glass Bottle in pouch
Model : MO6845
Vendor code : 111021
Country of Origin : CHINA
Country of Destination : EUROPE
Sample receiving state : Normal
Sample Received Date : Oct. 16, 2024
Testing Period : Oct. 16, 2024 to Oct. 28, 2024
Test Requested : Selected test(s) as requested by client.

Approved by: 

Suhongliang, Leon

Technical Director

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Test Requested:
Conclusion

| | |
|---|------|
| Microwave heating resistance test | Pass |
| Mechanical dishwashing safe test | Pass |
| 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 43 - Aromatic Amines Azodyes (AZO) Content | Pass |
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 77 - Formaldehyde Release | Pass |
| Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) - Pentachlorophenol (PCP) Content | Pass |
| - Colour fastness to rubbing | Pass |
| Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and Regulation (EU) 2018/213 and Council of Europe Resolution AP(2004)5 - Overall migration | Pass |
| - Specific migration of Bisphenol A(BPA) | Pass |
| - Bisphenol A(BPA) content | Pass |
| - Specific migration of Primary aromatic amines | Pass |
| - Specific migration of Heavy metals | Pass |
| DM-4B-COM-003-v01 for: - Volatile Organic Matter | Pass |
| - Peroxide value | Pass |
| - Specific Migration of Organotin (measured as Tin) | Pass |
| Regulation 1935/2004/EC, Council Directive 84/500/EEC and Commission Directive 2005/31/EC, DIN 51032 for: - Leachable Lead and Cadmium | Pass |

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Report Revise Record

| Report Version | Issued Date | Valid Version | Notes |
|----------------|---------------|---------------|-----------------|
| / | Oct. 28, 2024 | Valid | Initial release |

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The photo of the sample



The photo of AGC05443241017-001 is for use only with the original report.

Test Point Description

| Test point | Test point description |
|------------|---|
| 1-1 | Brown string |
| 1-2 | Bamboo lid |
| 1-3 | Inner white plastic lid |
| 1-4+1-5 | White silicone sealing+Black silicone pouch |
| 1-4 | White silicone sealing |
| 1-5 | Black silicone pouch |
| 1-6 | Glass bottle body |

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Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS-GL015:2022.

Microwave heating resistance test

| Test Result of microwave test | | |
|--|--|--|
| Sample No.:MO6845 Test method: Refer BS EN 15284 :007 Microwave power out: 800 W Short period: 90 s Long period: 585 s Number of tested sample: 2 pc(s) Number of control sample: 1 pc(s) | | |
| Specimen(s) | Maximum handle temperature after short period of heating | Maximum surface temperature after long period of heating |
| 1 | \ | 78.5°C |
| 2 | \ | 76.6°C |
| For all tested glass, glass-ceramic articles: No visible change of color was found on the tested samples after test. No visible cracking, crazing, scaling was found on the tested samples after test. | | |

Mechanical dishwashing safe test

| Test Result of mechanical dishwashing safe test: | |
|--|--|
| Requirements:For dishwasher safe test, if there is no noticeable change in appearance (e.g. color, size and shape) and function, it should be "PASS" | |
| Sample No.:MO6845 Test method: Refer BS EN 12875 -1-2005 Washing temperature: 60°C Number of cycle: 10 cycles Number of tested sample: 2 pc(s). Number of control sample: 1 pc(s). | |
| For all tested glass articles: No visible change of color and gloss was found on the tested samples after wash. No visible deposit or iridescent layer was found on the tested samples after wash. No cloud texture was found on the tested samples after wash. No decoration was detached after wash. | |

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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

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | |
|--------------|-------|-------|-----|----------------|------------|
| | | | | 1-1 | 1-2 |
| Lead(Pb) | mg/kg | 500 | 10 | N.D. | N.D. |
| Conclusion | | | | Conformity | Conformity |

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | |
|--------------|-------|-------|-----|----------------|------------|
| | | | | 1-3 | 1-4+1-5 |
| Lead(Pb) | mg/kg | 500 | 10 | N.D. | N.D. |
| Conclusion | | | | Conformity | Conformity |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-4+1-5

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

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | |
|--------------|-------|-------|-----|----------------|------------|
| | | | | 1-3 | 1-4+1-5 |
| Cadmium(Cd) | mg/kg | 100 | 10 | N.D. | N.D. |
| Conclusion | | | | Conformity | Conformity |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-4+1-5

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

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | |
|--|------|-------|-------|----------------|---------|
| | | | | 1-3 | 1-4+1-5 |
| 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. |

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| Test Item(s) | Unit | Limit | MDL | Test Result(s) | |
|---|------|-------|-------|----------------|------------|
| | | | | 1-3 | 1-4+1-5 |
| 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. |
| Conclusion | | | | Conformity | Conformity |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-4+1-5

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) | |
|-----------------------------|-------|-------|-----|----------------|------------|
| | | | | 1-3 | 1-4+1-5 |
| 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. |
| Conclusion | | | | Conformity | Conformity |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-4+1-5

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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 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) |
|--|-------|-------|-----|----------------|
| | | | | 1-1 |
| 4-Aminobiphenyl CAS:92-67-1 | mg/kg | 30 | 5 | N.D. |
| Benzidine CAS:92-87-5 | mg/kg | 30 | 5 | N.D. |
| 4-Chloro-o-toluidine CAS:95-69-2 | mg/kg | 30 | 5 | N.D. |
| 2-Naphthylamine CAS:91-59-8 | mg/kg | 30 | 5 | N.D. |
| o-Aminoazotoluene CAS:97-56-3 | mg/kg | 30 | 5 | N.D. |
| 5-Nitro-o-toluidine CAS:99-55-8 | mg/kg | 30 | 5 | N.D. |
| p-Chloroaniline CAS:106-47-8 | mg/kg | 30 | 5 | N.D. |
| 4-Methoxy-m-phenylenediamine CAS:615-05-4 | mg/kg | 30 | 5 | N.D. |

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| Test Item(s) | Unit | Limit | MDL | Test Result(s) |
|--|-------|-------|-----|----------------|
| | | | | 1-1 |
| 4,4'-Diaminodiphenylmethane CAS:101-77-9 | mg/kg | 30 | 5 | N.D. |
| 3,3'-Dichlorobenzidine CAS:91-94-1 | mg/kg | 30 | 5 | N.D. |
| 3,3'-Dimethoxybenzidine CAS:119-90-4 | mg/kg | 30 | 5 | N.D. |
| 3,3'-Dimethylbenzidine CAS:119-93-7 | mg/kg | 30 | 5 | N.D. |
| 4,4'-Methylenedi-o-toluidine CAS:838-88-0 | mg/kg | 30 | 5 | N.D. |
| p-Cresidine CAS:120-71-8 | mg/kg | 30 | 5 | N.D. |
| 4,4'-Methylenebis[2-chloroaniline] CAS:101-14-4 | mg/kg | 30 | 5 | N.D. |
| 4,4'-Oxydianiline CAS:101-80-4 | mg/kg | 30 | 5 | N.D. |
| 4,4'-Thiodianiline CAS:139-65-1 | mg/kg | 30 | 5 | N.D. |
| 2-Aminotoluene CAS:95-53-4 | mg/kg | 30 | 5 | N.D. |
| 2,4-Toluyldiamine CAS:95-80-7 | mg/kg | 30 | 5 | N.D. |
| 2,4,5-Trimethylaniline CAS:137-17-7 | mg/kg | 30 | 5 | N.D. |
| o-Anisidine CAS:90-04-0 | mg/kg | 30 | 5 | N.D. |
| 4-Aminoazobenzene CAS:60-09-3 | mg/kg | 30 | 5 | N.D. |
| Conclusion | | | | Conformity |

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.

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 77

- Formaldehyde Release

Test Methods and Equipment: EN 717-1:2004; UV-Vis

| Test Item(s) | Unit | Limit | MDL | Test Result(s) |
|----------------------|-------------------|-------|-------|----------------|
| | | | | 1-2 |
| Formaldehyde Release | mg/m ³ | 0.062 | 0.006 | N.D. (240h) |
| Conclusion | | | | Conformity |

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Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)
- Pentachlorophenol (PCP) Content

Test Methods and Equipment: EPA 3550C:2007 & EPA 8270E:2018; GC-MS

| Test Item(s) | Unit | Limit | MDL | Test Result(s) |
|-------------------------|-------|-------|-----|----------------|
| | | | | 1-2 |
| Pentachlorophenol (PCP) | mg/kg | 5 | 5 | N.D. |
| Conclusion | | | | Conformity |

- Colour 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, 63 %R.H., 4 hrs

The percentage of soak of wet rubbing cloth: 95%~100%

The long direction of the specimen: Endwise/ Crossrange

| Test point | Test Result | | Conclusion |
|------------------------------|--------------------------------------|-------------|------------|
| | Colour fastness to rubbing / (Grade) | | |
| | Dry rubbing | Wet rubbing | |
| 1-1 | 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.

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Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and Regulation (EU) 2018/213 and Council of Europe Resolution AP(2004)5:

- Overall Migration

| Test point | | Test result | | Conclusion |
|------------|------------------------------|--|-------------------------|------------|
| | | Overall migration/ (mg/dm ²) | | |
| | | 3% Acetic acid, 70°C,2h | 50% Ethanol, 70°C,2h | |
| 1-3 | 1 st migration | N.D. | N.D. | Conformity |
| | 2 nd migration | N.D. | N.D. | |
| | 3 rd migration | N.D. | N.D. | |
| Limit | | 10 | 10 | / |
| MDL | | 5 | 5 | / |

| Test point | Test Result | | Conclusion |
|------------|-----------------------------|-------------------------|------------|
| | Overall migration/ (mg/dm²) | | |
| | 3% Acetic acid, 70°C,2h | 50% Ethanol, 70°C,2h | |
| 1-4 | N.D. | N.D. | Conformity |
| Limit | 10 | 10 | / |
| MDL | 5 | 5 | / |

Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and Regulation (EU) 2018/213 and Council of Europe Resolution AP(2004)5:

- Specific migration of Bisphenol A(BPA)

| Test point | Test Result | Conclusion |
|-----------------------------|---|------------|
| | Specific migration of Bisphenol A(BPA)/ (mg/kg) | |
| | 3% Acetic acid, 70°C,2h | |
| 1-4 | N.D. | Conformity |
| Limit(Client's Requirement) | 0.05 | / |
| MDL | 0.02 | / |

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Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and

Regulation (EU) 2018/213 and Council of Europe Resolution AP(2004)5:

-Bisphenol A(BPA) content

| | |
|--------------------------------|--|
| Test Item | Bisphenol A (BPA) |
| Limit (mg/kg) | Prohibited |
| MDL(mg/kg) | 0.1 |
| Test Method/ Instrument | EPA 3540C:1996& EPA 8321B:2007/ LC-MS-MS |

| Test point | Test Result (mg/kg) | Conclusion |
|-------------------|----------------------------|-------------------|
| | Bisphenol A (BPA) | |
| 1-3 | N.D. | Conformity |

| | |
|--|--|
| Test Item | Bisphenol A (BPA) |
| Limit(Client's Requirement) (mg/kg) | Prohibited |
| MDL(mg/kg) | 0.1 |
| Test Method/ Instrument | EPA 3540C:1996& EPA 8321B:2007/ LC-MS-MS |

| Test point | Test Result (mg/kg) | Conclusion |
|-------------------|----------------------------|-------------------|
| | Bisphenol A (BPA) | |
| 1-4 | N.D. | Conformity |

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Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and

Regulation (EU) 2018/213 and Council of Europe Resolution AP(2004)5:

- Specific migration of Primary aromatic amines

| Test Item(s) | MDL (mg/kg) | Limit (mg/kg) |
|--|----------------|------------------|
| 4-Aminobiphenyl | 0.002 | N.D. |
| Benzidine | 0.002 | N.D. |
| 4-Chloro-o-Toluidine | 0.002 | N.D. |
| 2-Naphthylamine | 0.002 | N.D. |
| 4-amino-2',3-dimethylazobenzene | 0.002 | N.D. |
| 5-Nitro-o-toluidine | 0.002 | N.D. |
| 4-Chloroaniline | 0.002 | N.D. |
| 4-Methoxy-m-phenylenediamine | 0.002 | N.D. |
| 4,4'-Diaminodiphenylmethane | 0.002 | N.D. |
| 3,3'-Dichlorobenzidine | 0.002 | N.D. |
| 3,3'-Dimethoxybenzidine | 0.002 | N.D. |
| 3,3'-Dimethylbenzidine | 0.002 | N.D. |
| 4,4'-Methylenedi-o-toluidine | 0.002 | N.D. |
| 6-methoxy-m-toluidine | 0.002 | N.D. |
| 4,4'-methylenebis[2-chloroaniline] | 0.002 | N.D. |
| 4,4'-Oxydianiline | 0.002 | N.D. |
| 4,4'-Thiodianiline | 0.002 | N.D. |
| 2-Aminotoluene | 0.002 | N.D. |
| 4-methyl-m-phenylenediamine | 0.002 | N.D. |
| 2,4,5-Trimethylaniline | 0.002 | N.D. |
| 2-Methoxyaniline | 0.002 | N.D. |
| 4-Aminoazobenzene | 0.002 | N.D. |
| 1,3 phenylenediamine | 0.002 | N.D. |
| Total of other primary aromatic amines | 0.01 | 0.01 |

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| Test Item(s) | Test Result (mg/kg) | | |
|--|------------------------------|------------------------------|------------------------------|
| | 1-3 | | |
| | 1 st migration | 2 nd migration | 3 rd migration |
| | 3% Acetic acid 70°C, 2h | | |
| 4-Aminobiphenyl | N.D. | N.D. | N.D. |
| Benzidine | N.D. | N.D. | N.D. |
| 4-Chloro-o-Toluidine | N.D. | N.D. | N.D. |
| 2-Naphthylamine | N.D. | N.D. | N.D. |
| 4-amino-2',3-dimethylazobenzene | N.D. | N.D. | N.D. |
| 5-Nitro-o-toluidine | N.D. | N.D. | N.D. |
| 4-Chloroaniline | N.D. | N.D. | N.D. |
| 4-Methoxy-m-phenylenediamine | N.D. | N.D. | N.D. |
| 4,4'-Diaminodiphenylmethane | N.D. | N.D. | N.D. |
| 3,3'-Dichlorobenzidine | N.D. | N.D. | N.D. |
| 3,3'-Dimethoxybenzidine | N.D. | N.D. | N.D. |
| 3,3'-Dimethylbenzidine | N.D. | N.D. | N.D. |
| 4,4'-Methylenedi-o-toluidine | N.D. | N.D. | N.D. |
| 6-methoxy-m-toluidine | N.D. | N.D. | N.D. |
| 4,4'-methylenebis[2-chloroaniline] | N.D. | N.D. | N.D. |
| 4,4'-Oxydianiline | N.D. | N.D. | N.D. |
| 4,4'-Thiodianiline | N.D. | N.D. | N.D. |
| 2-Aminotoluene | N.D. | N.D. | N.D. |
| 4-methyl-m-phenylenediamine | N.D. | N.D. | N.D. |
| 2,4,5-Trimethylaniline | N.D. | N.D. | N.D. |
| 2-Methoxyaniline | N.D. | N.D. | N.D. |
| 4-Aminoazobenzene | N.D. | N.D. | N.D. |
| 1,3 phenylenediamine | N.D. | N.D. | N.D. |
| Total of other primary aromatic amines | N.D. | N.D. | N.D. |
| Conclusion | Conformity | | |

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Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and

Regulation (EU) 2018/213 and Council of Europe Resolution AP(2004)5:

- Specific migration of Heavy metals

| Test Item(s) | Test condition/ Equipment | MDL (mg/kg) | Test Result(s) (mg/kg) | | | Limit (mg/kg) |
|--|---|----------------|------------------------------|------------------------------|------------------------------|------------------|
| | | | 1-3 | | | |
| | | | 1 st migration | 2 nd migration | 3 rd migration | |
| Barium (Ba) | 3% Acetic acid/ 70°C, 2h/ ICP-OES/ IC | 0.1 | N.D. | N.D. | N.D. | 1 |
| Cobalt (Co) | | 0.01 | N.D. | N.D. | N.D. | 0.05 |
| Copper (Cu) | | 0.25 | N.D. | N.D. | N.D. | 5 |
| Iron (Fe) | | 0.25 | N.D. | N.D. | N.D. | 48 |
| Lithium (Li) | | 0.1 | N.D. | N.D. | N.D. | 0.6 |
| Manganese (Mn) | | 0.1 | N.D. | N.D. | N.D. | 0.6 |
| Zinc (Zn) | | 0.25 | N.D. | N.D. | N.D. | 5 |
| Aluminum (Al) | | 0.1 | N.D. | N.D. | N.D. | 1 |
| Europium (Eu) | | 0.01 | N.D. | N.D. | N.D. | / |
| Gadolinium (Gd) | | 0.01 | N.D. | N.D. | N.D. | / |
| Lanthanum (La) | | 0.01 | N.D. | N.D. | N.D. | / |
| Terbium (Tb) | | 0.01 | N.D. | N.D. | N.D. | / |
| Sum(Eu+Gd+La+Tb) | | / | N.D. | N.D. | N.D. | 0.05 |
| Antimony (Sb) | | 0.01 | N.D. | N.D. | N.D. | 0.04 |
| Arsenic (As) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Cadmium (Cd) | | 0.002 | N.D. | N.D. | N.D. | N.D. |
| Chromium (Cr) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Mercury (Hg) | | 0.01 | N.D. | N.D. | N.D. | N.D. |
| Nickel (Ni) | | 0.01 | N.D. | N.D. | N.D. | 0.02 |
| Conclusion | | / | Conformity | | | / |
| Ammonium (NH ₄ ⁺) | | 0.10 | N.D. | N.D. | N.D. | / |
| Calcium (Ca) | | 0.01 | 0.104 | 0.204 | 0.029 | / |
| Magnesium (Mg) | | 0.01 | 0.013 | 0.029 | N.D. | / |
| Potassium (K) | | 0.01 | 0.015 | 0.029 | N.D. | / |
| Sodium (Na) | | 0.01 | 0.031 | 0.041 | N.D. | / |

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DM-4B-COM-003-v01 for:
- Volatile Organic Matter

Unit: %

| Test item(s) | Test Condition | MDL | Result(s) | Limit |
|-------------------------|----------------|-----|------------|-------|
| | | | 1-4 | |
| Volatile Organic Matter | 200°C, 4h | 0.1 | 0.41 | 0.5 |
| Conclusion | | / | Conformity | / |

DM-4B-COM-003-v01 for:
- Peroxide value

Unit: %

| Test Item | MDL | Result(s) | Limit |
|----------------|-----|------------|--------|
| | | 1-4 | |
| Peroxide value | 0.2 | N.D. | Absent |
| Conclusion | / | Conformity | / |

DM-4B-COM-003-v01 for:
- Specific Migration of Organotin (measured as Tin)

| Test point | Test Result | Conclusion |
|------------|--|------------|
| | Specific Migration of Organotin (measured as Tin)/ (mg/kg) | |
| | 3% Acetic acid, 70°C,2h | |
| 1-4 | N.D. | Conformity |
| Limit | 0.1 | / |
| MDL | 0.01 | / |

Regulation 1935/2004/EC, Council Directive 84/500/EEC and Commission Directive 2005/31/EC, DIN 51032 for:
- Leachable Lead and Cadmium

Test Methods and Equipment: EN 1388-2:1996; ICP-OES

| Test point | Test Result | | Conclusion |
|------------|-----------------------------|--------------------------------|------------|
| | Extractable Lead(Pb)/(mg/L) | Extractable Cadmium(Cd)/(mg/L) | |
| | 4% Acetic acid,22°C,24h | 4% Acetic acid,22°C,24h | |
| 1-6 | N.D. | N.D. | Conformity |
| Limit | 4.0 | 0.3 | / |
| MDL | 0.1 | 0.01 | / |

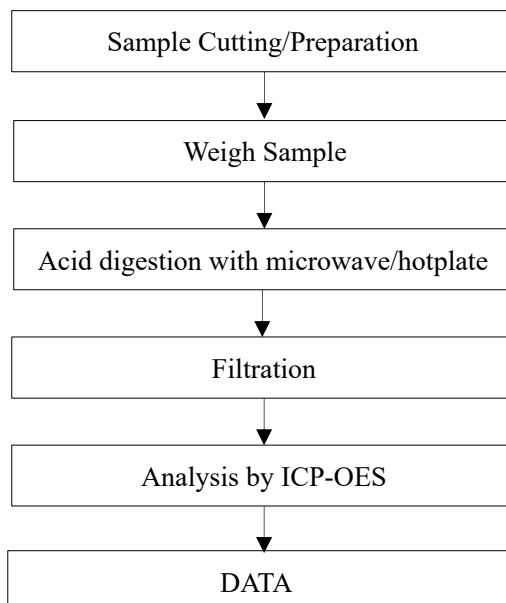
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Test Flow Chart of Heavy Metal Content



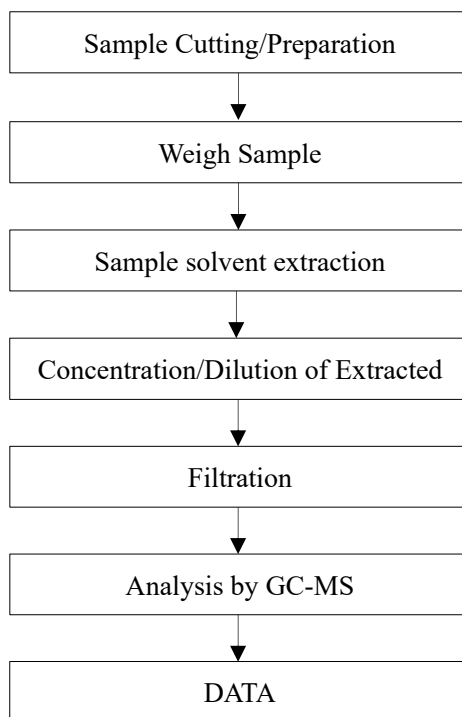
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Test Flow Chart of Phthalates

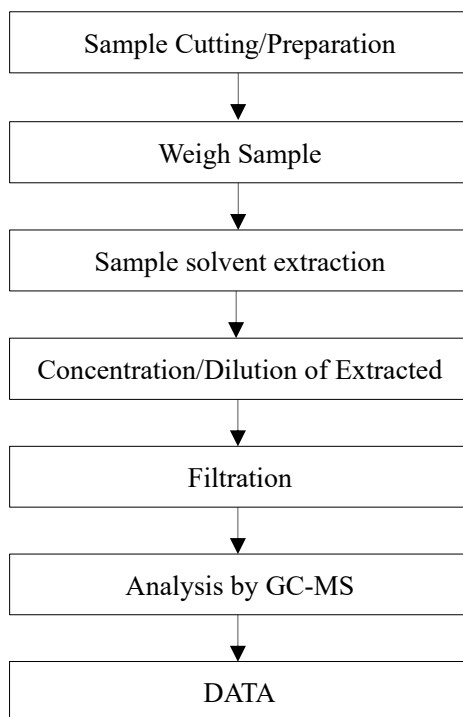


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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)

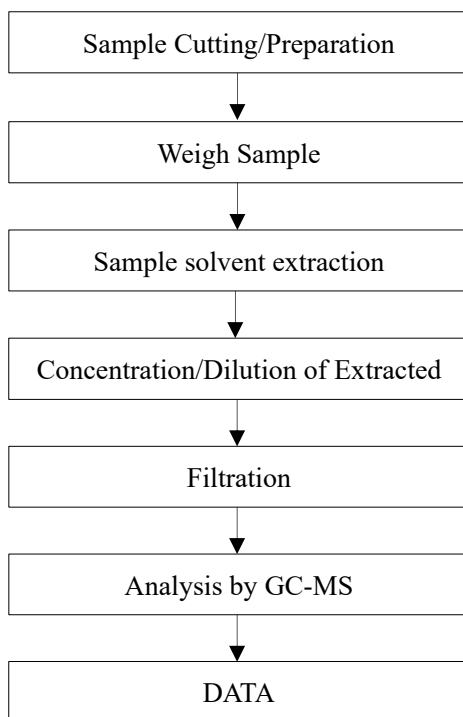
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Test Flow Chart of AZO



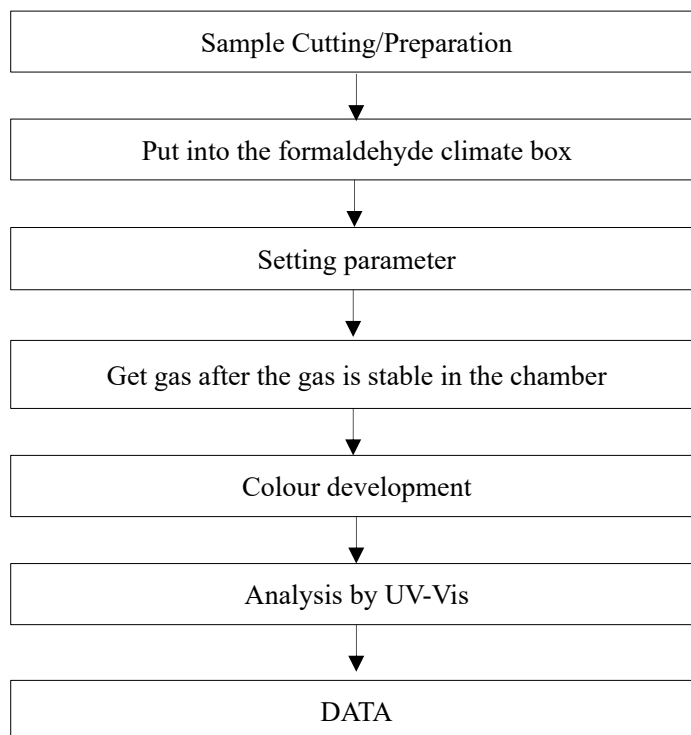
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Test Flow Chart of Formaldehyde Release

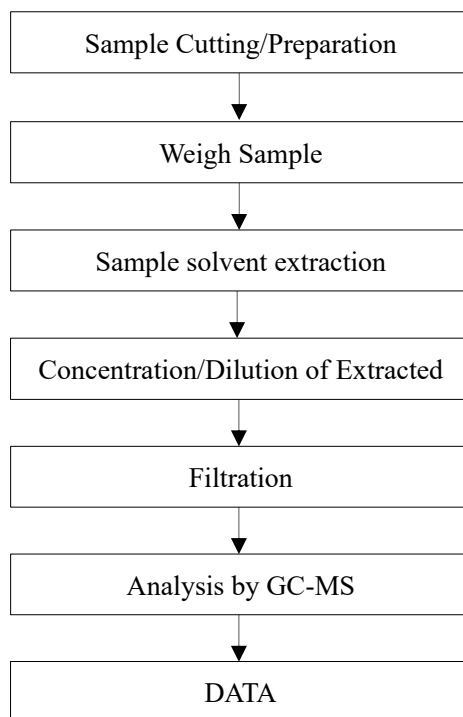


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Test Flow Chart of Pentachlorophenol (PCP)

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2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
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 ***

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