

Test Report

Report No. : AGC05443250735-001

SAMPLE NAME : Notebook with cork cover and pen/Notepad with cork cover and pen

MODEL NAME : MO9859/MO9857

APPLICANT: MID OCEAN BRANDS B.V.

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

DATE OF ISSUE : Aug. 11, 2025

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





MID OCEAN BRANDS B.V.

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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 Notebook with cork cover and pen/Notepad with cork cover and pen

Model MO9859/MO9857

Vendor Code 106613 Country of Origin **CHINA** Country of Destination **EUROPE** Sample Received Date Jul. 29, 2025

Testing Period Jul. 29, 2025 to Aug. 11, 2025

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

Test Requested: Conclusion

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

Pass - Lead(Pb) Content

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

-Cadmium(Cd) Content

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

- Phthalates Content

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50 - Polycyclic-aromatic Hydrocarbons (PAHs) Content

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

Pass - Aromatic Amines Azodyes (AZO) Content

Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)

- Pentachlorophenol (PCP) Content

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

- Formaldehyde Release

- Colour fastness to rubbing Pass

Approved by: Suhong hung

Report No.: AGC05443250735-001

Pass

Pass

Pass

Pass

Pass

Suhongliang

Technical Director



Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Aug. 11, 2025	Valid	Initial release



The photo of the sample





Report No.: AGC05443250735-001

The photo of AGC05443250735-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Cork
1-2	Black fabric
1-3	Black elastic band
1-4	Black coating on metal ring
1-5	Metal ring
1-6	Brown carton cover
1-7	Inner brown page
1-8	Black plastic pen head
1-9	Black plastic clip
1-10	Black plastic button
1-11	Carton pen barrel
1-12	Kakki plastic thrust device
1-13	White plastic thrust device
1-14	White plastic pen core pipe
1-15	Spring
1-16	Black ink



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.

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

Toot Itom(a)	Unit Limit	MDI	Test Result(s)			
Test Item(s)		Limit	MDL	1-1	1-2+1-3	1-4
Lead(Pb)	mg/kg	500	10	43	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

	Unit		MDL	Test Result(s)		
Test Item(s)		Limit		1-5	1-6+1-7	1-8+1-9+1-
						10
Lead(Pb)	mg/kg	500	10	N.D.	16	N.D.
Conclusion				Conformity	Conformity	Conformity

	Unit Limit			Test Result(s)		
Test Item(s)		Limit	MDL	1-11	1-12+1-	1-15
				1-11	13+1-14	
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)
rest item(s)	Unit	Limit	MIDL	1-16
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+1-3,1-6+1-7,1-8+1-9+1-10,1-12+1-13+1-14
- 2. As specified by client, the submitted samples were directly tested without drying, the test points: 1-4,1-16

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 Result(s)			
Test Item(s)	Unit	Limit	MDL	1 /	1-8+1-9+1-	1-12+1-	
				1-4	10	13+1-14	
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.	N.D.	
Conclusion				Conformity	Conformity	Conformity	

Remark:

- 1. As specified by client, the submitted samples were mixed to test, the test points: 1-8+1-9+1-10,1-12+1-13+1-14
- 2. As specified by client, the submitted samples were directly tested without drying, the test points: 1-4



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

		Limit		Test Result(s)			
Test Item(s)	Unit		MDL	1-4	1-8+1-9+1- 10	1-12+1- 13+1-14	
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.	N.D.	
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.	N.D.	
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.	N.D.	
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.	N.D.	
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.	N.D.	
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.	N.D.	
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.	N.D.	
Sum of DIBP +DBP+BBP+DEHP	%	0.1	/	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.	N.D.	N.D.	
Con	clusion			Conformity	Conformity	Conformity	

Remark:

- 1. As specified by client, the submitted samples were mixed to test, the test points: 1-8+1-9+1-10,1-12+1-13+1-14
- 2. As specified by client, the submitted samples were directly tested without drying, the test points: 1-4

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%

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Report No.: AGC05443250735-001



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 Result(s)		
Test Item(s)	Unit	Limit	MDL	1-4	1-8+1-9+1-	
				1-4	10	
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.	
Со	Conclusion					

Remark:

- 1. As specified by client, the submitted samples were mixed to test, the test points: 1-8+1-9+1-10
- 2. As specified by client, the submitted samples were directly tested without drying, the test points: 1-4

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	/	/

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Report No.: AGC05443250735-001

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)
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.
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'-Dimethybenzidine 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-Toluylendiamine 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.
C/15.00-07-5	Conformity			

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Report No.: AGC05443250735-001



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

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.

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)
				1-1
Pentachlorophenol (PCP)	mg/kg	5	5	N.D.
Conclusion				Conformity

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

- Formaldehyde Release

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

Tast Itam(s)	Unit	Limit	MDL	Test Result(s)
Test Item(s)	Omi	Lillit	MIDL	1-1
Formaldehyde Release	mg/m³	0.062	0.006	N.D.(240h)
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: 20.3 °C, 65 %R.H., 4 hrs

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

	Test I	Conclusion	
Test point	Colour fastness to		
	Dry rubbing	Wet rubbing	
1-2	4-5	4-5	Conformity
1-3	4-5	4-5	Conformity
Limit (Client's Requirement)	≥2-3	≥2-3	/

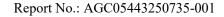
Note:

Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

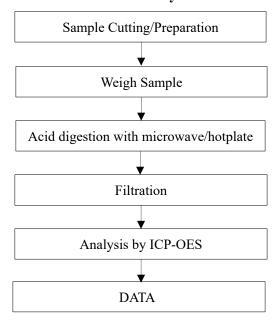
Grade 1 = Colour Change Seriously (Bad Grade)

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

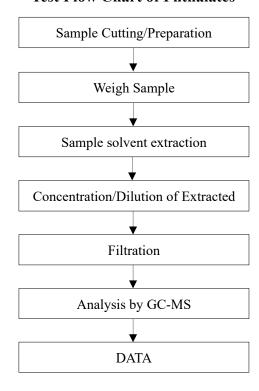




Test Flow Chart of Heavy Metal Content



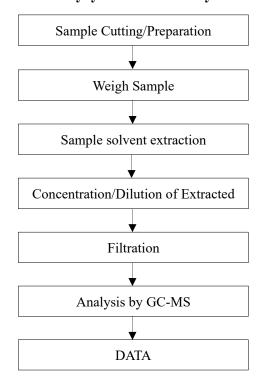
Test Flow Chart of Phthalates







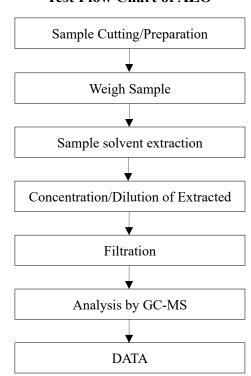
Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)

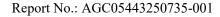






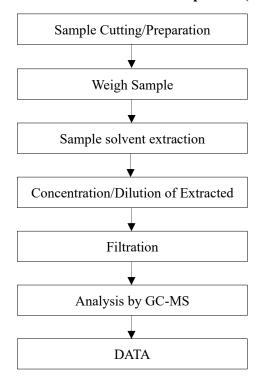
Test Flow Chart of AZO







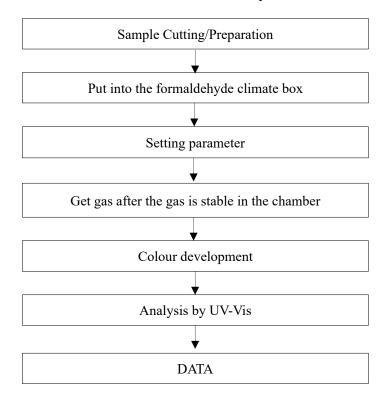
Test Flow Chart of Pentachlorophenol (PCP)







Test Flow Chart of Formaldehyde Release





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*** End of Report ***