

# **Test Report**

Report No. : AGC05443231132-001

**SAMPLE NAME** : RPET waterproof bag 25L

MODEL NAME : MO2181

**APPLICANT**: MID OCEAN BRANDS B.V

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

**DATE OF ISSUE** : Nov. 28, 2023

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





Report No.: AGC05443231132-001 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 RPET waterproof bag 25L

Model MO2181 Vendor code 106613 Country of Origin **CHINA** Country of Destination **EUROPE** Sample Received Date Nov. 23, 2023

**Testing Period** Nov. 23, 2023 to Nov. 28, 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

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

Pass - Phthalates Content

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

Pass - Polycyclic-aromatic Hydrocarbons (PAHs) Content

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

- Aromatic Amines Azodyes (AZO) Content

- Colour fastness to rubbing Pass

Approved by : Jessie Lians

Liangdan, Jessie.Liang

Technical Director

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**Pass** 

**Pass** 



Report Revise Record

Report No.: AGC05443231132-001	1
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Report Version	Issued Date	Valid Version	Notes
/	Nov. 28, 2023	Valid	Initial release



The photo of the sample



The photo of AGC05443231132-001 is for use only with the original report.

# **Test Point Description**

Test point	Test point description
1-1	Black main body+Blue main body+Grey main body
1-2	Black webbing
1-3	Black zipper fabric
1-4	Black rubber handle
1-5	Black plastic buckle+Transparent waterproof tape+Black plastic zipper teeth
1-6	Metal zipper head
1-7	Black main body
1-8	Blue main body
1-9	Grey main body



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

Test Item(s)	Cest Item(s) Unit Limit MDL		MDI	П	Test Result(s)	
Test Item(s)	Omi	Limit	MIDL	1-1	1-2	1-3
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Toot Itam(s)	Unit Limit		Limit MDL		it Limit MDI		Test Result(s)		
Test Item(s)	Unit	Limit	MDL	1-4	1-5	1-6			
Lead(Pb)	mg/kg	500	10	N.D.	15	28			
Conclusion				Conformity	Conformity	Conformity			

#### Remark:

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

#### 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

Tost Itam(s)	Unit	Limit	MDL	Test Result(s)	
Test Item(s)	Ullit	Lillit	MIDL	1-1	1-3
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.
C	Conformity	Conformity			

Test Item(s)	Unit	Limit	Limit MDL	Test Result(s)		
rest item(s)	Oiiit	Lillit	MIDL	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: 1-1,1-5

# 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)	
Test Item(s)	Onit	LIIIII	MDL	1-1	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.



Tost Itom(s)	Unit	Limit	MDL	Test Result(s)	
Test Item(s)	Unit	Lillit	MDL	1-1	1-3
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.
Co	Conformity	Conformity			

Tast Itam(s)	Unit Limit	MDL	Test Result(s)		
Test Item(s)	Onit	Lillit	MDL	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.
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%

<sup>1.</sup> As specified by client, the submitted samples were mixed to test, the test points: 1-1,1-5



# 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)	
Test tieth(s)	Ollit	Lillit	MIDL	1-1	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	Conformity	Conformity			

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
Test tiem(s)	Unit	LIIIII	MDL	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.	
Con	Conformity	Conformity				

#### Remark:

#### 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

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Report No.: AGC05443231132-001

<sup>1.</sup> As specified by client, the submitted samples were mixed to test, the test points: 1-1,1-5



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[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+ BiFA+ 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

Tost Itam(s)	Linit	T ::4	Limit MDL -	Test Result(s)		
Test Item(s)	Unit	Limit		1-1	1-2	1-3
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.



Test Item(s)	Unit	Limit	Limit MDL	Test Result(s)		
rest item(s)	Ullit	LIIIII		1-1	1-2	1-3
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.
Co	nclusion			Conformity	Conformity	Conformity

#### Remark:

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

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.



Colour lustriess to rubbing

**Test Method:** ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing:  $21.0~^{\circ}\text{C}$ ,  $65~^{\circ}\text{R.H.}$ , 4~hrs

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

	Test		
Test point	Colour fastness to	Conclusion	
	Dry rubbing	Wet rubbing	
1-2	4-5	4-5	Conformity
1-3	4-5	4-5	Conformity
1-7	4-5	4-5	Conformity
1-8	4-5	4-5	Conformity
1-9	4-5	4-5	Conformity
Limit (Client's Requirement)	≥2-3	≥2-3	/

#### Note:

Colour Fastness Grade:

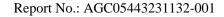
Grade 5 = No Colour Change (Best Grade)

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.

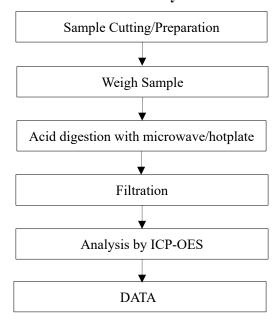
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Report No.: AGC05443231132-001

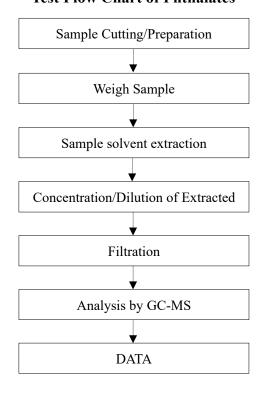


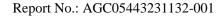


# **Test Flow Chart of Heavy Metal Content**



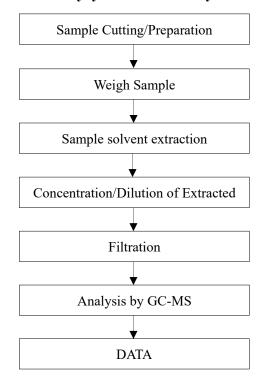
#### **Test Flow Chart of Phthalates**

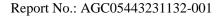






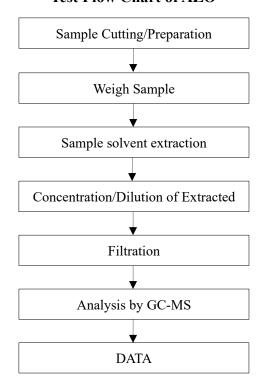
# Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)







#### **Test Flow Chart of AZO**





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\*\*\* End of Report \*\*\*