Test report

T-25363687-11-R1

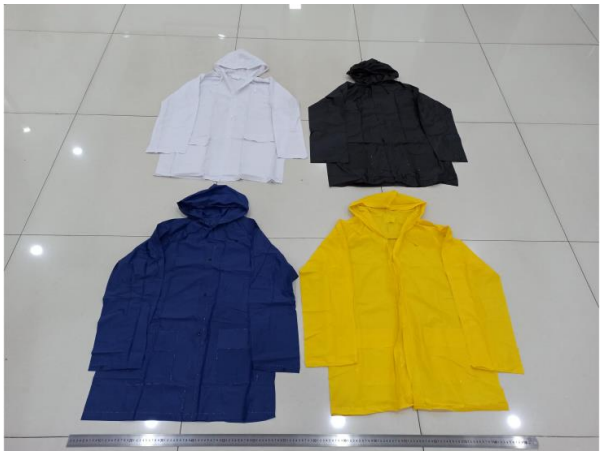
Verify Report

Overall result — Pass

Please refer to the following pages for test result summary and notes.

Client information

Client: Mid Ocean Brands B.V.
Address: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong



Sample information

Description: Folded PVC raincoat with hood
SKU / style #: KC5101
Country of origin: -
Country of distribution: Europe
Material / composition: PVC
Quantity submitted: 4 color/total:white 1 pc, black 4 pcs, yellow 1 pc, blue 1 pc + 4 styles

Labeled age grade: -
Tested age grade: -
Vendor code: 118518

General information

Sample receipt date: 24-Jun-2025
Testing period: 25-Jun-2025 to 01-Jul-2025, 15-Jul-2025 to 21-Jul-2025

Report date: 22-Jul-2025

QIMA (Hangzhou) Testing Co., Ltd.

Carina Zhou

Textile Laboratory Manager

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu

Chemical Laboratory Manager

Result summary

At the request of the client, the following test were conducted:

Test(s) conducted	Conclusion
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials	Pass
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials	Pass
Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates –Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)	Pass
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles	Pass
Regulation (EC) No 1907/2006 REACH Annex XVII Item 72, Certain Substances Classified as Carcinogenic, Mutagenic or Toxic for Reproduction (CMR) -Aromatic amine salts	Pass
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)	Pass
Colour Fastness to Rubbing	Pass

Note:
By client's request, selected components were conducted for all chemical testing.

Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	C1	C2+C3+C4	C5	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	---	---	**500**
Conclusion	Pass	Pass	Pass	---	---	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials

Test Method: ASTM F963-23 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	C2+C3+C4	C5	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	---	---	---	**100**
Conclusion	Pass	Pass	---	---	---	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		C2+C3+C4	C5	---	**Limit (% w/w)**
Test Item	CAS No.	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	---	**0.1**
Benzyl Butyl Phthalate (BBP)	85-68-7	ND	ND	---	**0.1**
Di-(2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	---	**0.1**
Diisobutyl Phthalate (DIBP)	84-69-5	ND	ND	---	**0.1**
Sum of DBP, BBP, DEHP, DIBP		ND	ND	---	**0.1**
Di-n-Octyl Phthalate (DnOP)	117-84-0	ND	ND	---	
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	
Sum of DnOP, DINP, DIDP		ND	ND	---	**0.1**
Conclusion		Pass	Pass	---	

Note:
% w/w = Percent by weight
LT = Less than
ND = Not detected (Reporting Limit = 0.015 % w/w)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles

Test Method: EN ISO 14362-1:2017, EN ISO 14362-3:2017
Analytical Method: Gas Chromatography with Mass Spectrometry, Liquid Chromatography with Diode Array Detection / Liquid Chromatography with Mass Spectrometry

Specimen No.		C1	---	---	---	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
4-aminobiphenyl	92-67-1	ND	---	---	---	**30**
Benzidine	92-87-5	ND	---	---	---	**30**
4-chloro-o-toluidine	95-69-2	ND	---	---	---	**30**
2-naphtylamine	91-59-8	ND	---	---	---	**30**
o-Aminoazotoluene	97-56-3	ND	---	---	---	**30**
5-nitro-o-toluidine	99-55-8	ND	---	---	---	**30**
4-chloroaniline	106-47-8	ND	---	---	---	**30**
2,4-diaminoanisole	615-05-4	ND	---	---	---	**30**
4,4'-methylenedianiline	101-77-9	ND	---	---	---	**30**
3,3’-dichlorobenzidine	91-94-1	ND	---	---	---	**30**
o-dianisidine	119-90-4	ND	---	---	---	**30**
3,3’-dimethylbenzidine	119-93-7	ND	---	---	---	**30**
4,4’-methylenedi-o-toluidine	838-88-0	ND	---	---	---	**30**
p-cresidine	120-71-8	ND	---	---	---	**30**
4,4’-methylene-bis-(2-chloro-aniline)	101-14-4	ND	---	---	---	**30**
4,4’-oxydianiline	101-80-4	ND	---	---	---	**30**
4,4’-thiodianiline	139-65-1	ND	---	---	---	**30**
o-toluidine	95-53-4	ND	---	---	---	**30**
2,4-diaminotoluene	95-80-7	ND	---	---	---	**30**
2,4,5-trimethylaniline	137-17-7	ND	---	---	---	**30**
2-methoxyaniline	90-04-0	ND	---	---	---	**30**
4-aminoazobenzene	60-09-3	ND	---	---	---	**30**
Conclusion		Pass	---	---	---	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 5 mg/kg)

Remark:
In the case of levels per amine component less than or equal to 30 mg/kg, according to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.

Detailed results

Regulation (EC) No 1907/2006 REACH Annex XVII Item 72, Certain Substances Classified as Carcinogenic, Mutagenic or Toxic for Reproduction (CMR) -Aromatic amine salts

Test Method: EN ISO 14362-1:2017
Analytical Method: Gas Chromatography with Mass Spectrometry/ Liquid Chromatography-Mass Spectrometer (LC-MS)

Specimen No.		C1	---	---	---	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
4-chloro-o-toluidinium chloride Δ	3165-93-3	ND	---	---	---	**30**
2-Naphthylammoni-umacetate Δ	553-00-4	ND	---	---	---	**30**
2,4-diaminoanisole sul-phate Δ	39156-41-7	ND	---	---	---	**30**
2,4,5-trimethylaniline hydrochloride Δ	21436-97-5	ND	---	---	---	**30**
Conclusion		Pass	---	---	---	

Note:
mg/kg (Milligrams per kilogram) = ppm (Parts per million)
LT = Less than
ND = Not detected (Reporting Limit = 5 mg/kg)
Δ = Determination was based on aromatic amines analysis. The content was calculated based on assumption of worst-case.

Remark:
The analytical result of detected amine is confirmed by LC-DAD / LC-MS.

Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)

Test Method: AfPS GS 2019:01
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		C2+C3+C4	C5	---	---	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzo [a] pyrene (BaP)	50-32-8	ND	ND	---	---	**1**
Benzo [e] pyrene (BeP)	192-97-2	ND	ND	---	---	**1**
Benzo [a] anthracene (BaA)	56-55-3	ND	ND	---	---	**1**
Chrysene (CHR)	218-01-9	ND	ND	---	---	**1**
Benzo [b] fluroranthene (BbFA)	205-99-2	ND	ND	---	---	**1**
Benzo [j] fluroranthene (BjFA)	205-82-3	ND	ND	---	---	**1**
Benzo [k] fluroranthene (BkFA)	207-08-9	ND	ND	---	---	**1**
Dibenzo [a,h] anthracene (DBAhA)	53-70-3	ND	ND	---	---	**1**
Conclusion		Pass	Pass	---	---	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 0.2 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

Colour Fastness to Rubbing

Test Method: EN ISO 105-X12: 2016, Size of rubbing finger: 16mm dia.

Specimen No.	T1-Body	T1-Drawstring	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4-5	4-5	---	---	---	Min. 2-3
Wet staining	4-5	4-5	---	---	---	Min. 2-3
Conclusion	Pass	Pass	---	---	---	-

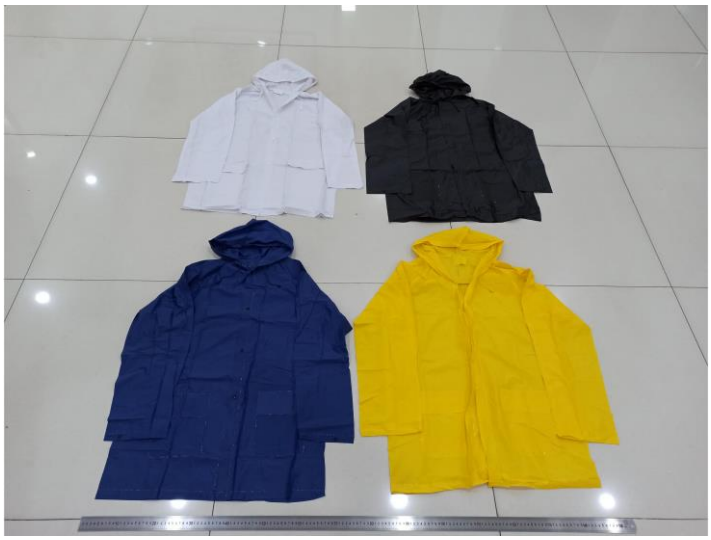
Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

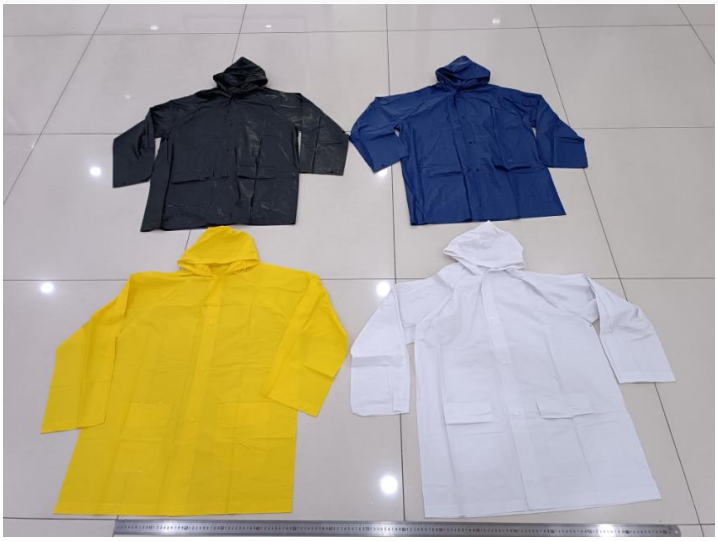
Specimen description

Specimen #	Specimen description	Location
C1	Black textile	Black style-drawstring
C2	Black plastic	Black style-drawstring tail
C3	Black plastic	Black style-stud
C4	Black plastic	Black style-socket
C5	Black soft plastic	Black style-main body
T1	Black raincoat	Finished product

Pictures

Sample photo:





End of the report