



TEST REPORT

REPORT No.: R2DG19101215616E

Date: October 17, 2019

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Mid Ocean Brands B.V.
7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, kowloon Hong Kong

Report on the submitted samples said to be:

Sample Description : PENCIL CASE
Sample Name : PENCIL CASE
Style/Item No. : MO8176
Color : BLUE/RED/BLACK
Country of Origin : CHINA
Buyer : Mid Ocean Brands B.V.
Sample Receiving Date : October 12, 2019
Testing Period : From October 12, 2019 to October 17, 2019
Results : Please refer to next page(s).

Signed for and on behalf of BACL

Checked by: _____
Jane Xu
Technical Supervisor

Approved by: _____
Bensen Huang
Laboratory Manager



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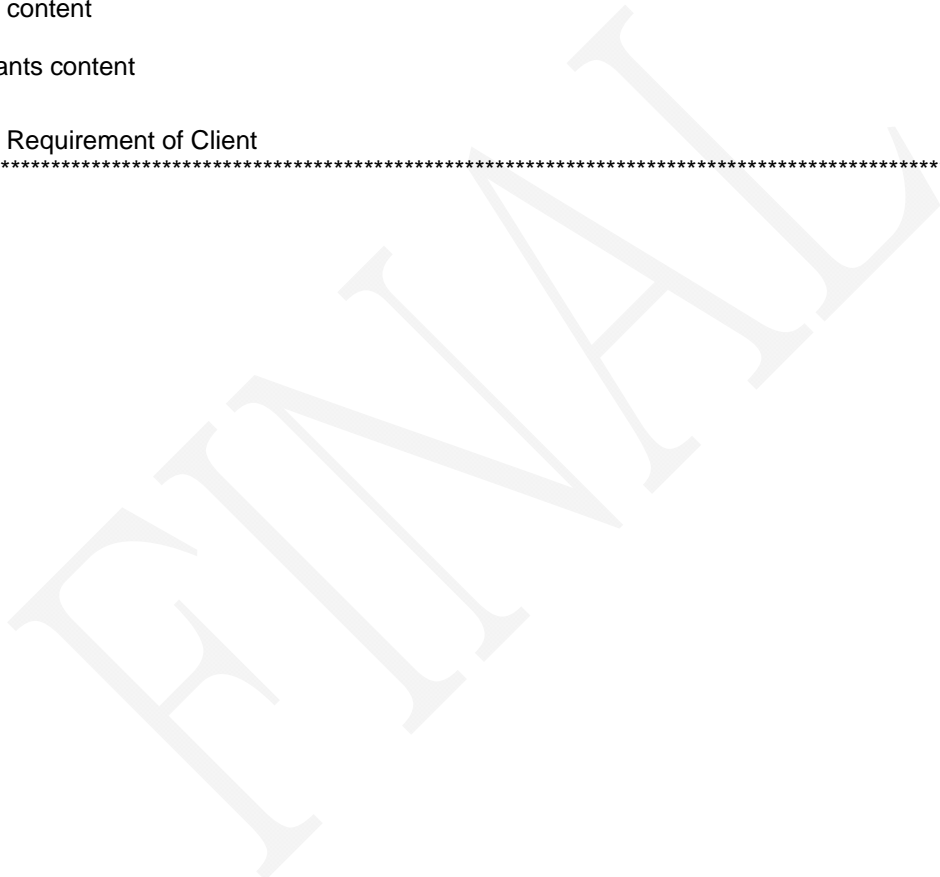
Summary of Test Results:

TEST REQUEST

CONCLUSION

- | | |
|--------------------------|------|
| 1. Total Lead Content | Pass |
| 2. Cadmium Content | Pass |
| 3. Phthalates content | Pass |
| 4. AZO colorants content | Pass |

Pass= Meet the Requirement of Client





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Results:

Tested part(s): (Tested parts are required partially by client)

- (1) Blue fabric (body) ①
- (2) Red fabric (body) ②
- (3) Black fabric (body) ③

Remark: ①BLUE ②RED ③BLACK

1. Total Lead Content

Test method: With reference to CPSC-CH-E1002-08.3, by acid digestion and analysis was performed by Atomic Absorption Spectrometry (AAS).

Item	Unit	MDL	Results	Client's Limit
			(1)+(2)+(3)	
Lead (Pb)	mg/kg	10	N.D.	500
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

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2. Cadmium (Cd) content

Test method: Acid digestion and analysis was performed by Atomic Absorption Spectrometry (AAS).

Item	Unit	MDL	Results	Client's Limit
			(1)+(2)+(3)	
Cadmium (Cd)	mg/kg	10	N.D.	100
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
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3. Phthalates content

Test method: With reference to EN 14372: 2004, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Items	Unit	MDL	Results	Client's Limit
			(1)+(2)+(3)	
Dibutyl Phthalate (DBP)	mg/kg	30	N.D.	---
Benzylbutyl Phthalate (BBP)	mg/kg	30	N.D.	---
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	---
Sum of (DBP, BBP, DEHP)	mg/kg	/	N.D.	1000
Di-n-octyl Phthalate (DNOP)	mg/kg	30	N.D.	---
Diisononyl Phthalate (DINP)	mg/kg	100	N.D.	---
Diisodecyl Phthalate (DIDP)	mg/kg	100	N.D.	---
Sum of (DNOP, DINP, DIDP)	mg/kg	/	N.D.	1000
Diisobutyl Phthalate (DIBP)	mg/kg	30	N.D.	1000
Conclusion	/	/	Pass	/

Note:

- MDL = Method Detection Limit
- % = Percentage by weight
- 0.1% = 1000mg/kg, mg/kg = ppm
- The results less than MDL are not taken into account while calculating the sum contents.
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
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4. AZO colorants content

Test method: With reference to EN ISO 14362-1: 2017, Analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

No.	Item	CAS No.	Unit	MDL	Results	Client's Limit
					(1)+(2) +(3)	
1	4-aminobiphenyl/xenylamine/Biphenyl-4-ylamine	92-67-1	mg/kg	5	N.D.	30
2	Benzidine	92-87-5	mg/kg	5	N.D.	30
3	4-chloro-o-toluidine	95-69-2	mg/kg	5	N.D.	30
4	2-naphthylamine	91-59-8	mg/kg	5	N.D.	30
5	o-aminoazotoluene/4-o-tolylazo-o-toluidine/ 4-amino-2',3-dimethylazobenzene	97-56-3	mg/kg	5	N.D.	30
6	5-nitro-o-toluidine/2-amino-4-nitrotoluene	99-55-8	mg/kg	5	N.D.	30
7	p-chloraniline/4-chloroaniline	106-47-8	mg/kg	5	N.D.	30
8	2,4-diaminoanisole/ 4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	N.D.	30
9	4,4'-diaminodiphenylmethane/ 4,4'-methylenedianiline	101-77-9	mg/kg	5	N.D.	30

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No.	Item	CAS No.	Unit	MDL	Results	Client's Limit
					(1)+(2) +(3)	
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	mg/kg	5	N.D.	30
11	3,3'-dimethoxybenzidine/o-dianisidine	119-90-4	mg/kg	5	N.D.	30
12	3,3'-dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	mg/kg	5	N.D.	30
13	3,3'-dimethyl-4,4'-diaminodiphenylmethane/ 4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5	N.D.	30
14	p-cresidine/6-methoxy-m-toluidine	120-71-8	mg/kg	5	N.D.	30
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4	mg/kg	5	N.D.	30
16	4,4'-oxydianiline	101-80-4	mg/kg	5	N.D.	30
17	4,4'-thiodianiline	139-65-1	mg/kg	5	N.D.	30
18	o-toluidine/2-aminotoluene	95-53-4	mg/kg	5	N.D.	30
19	2,4-toluylendiamine/2,4-diaminotoluene/ 4-methyl-m-phenylenediamine	95-80-7	mg/kg	5	N.D.	30
20	2,4,5-trimethylaniline	137-17-7	mg/kg	5	N.D.	30
21	o-anisidine/ 2-methoxyaniline	90-04-0	mg/kg	5	N.D.	30
22	4-aminoazobenzene*	60-09-3	mg/kg	5	N.D.	30
Conclusion		/	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- *: The EN ISO 14362-1: 2017 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline or 1,4-phenylenediamine. If the test result for 4-aminoazobenzene (CAS No. 60-09-3) is considered as "Not Detected" since both aniline and / or 1,4-phenylenediamine is not found by mentioned test method. Otherwise the test method of EN ISO 14362-3: 2017 is employed to verify the presence of 4-aminoazobenzene
- "+": Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
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Photograph of Sample



BACL authenticate the photo on original report only

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3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The information which provided by the applicant, such as sample description, sample name ,material component, style/item No. , P.O. No. , manufacture, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
6. The test samples were in good condition before testing.
7. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

*** End of Report ***



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 Sample Name : PENCIL CASE
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 Country of Origin : CHINA
 Buyer : Mid Ocean Brands B.V.
 Sample Receiving Date : October 12, 2019
 Testing Period : From October 12, 2019 to October 17, 2019
 Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

CONCLUSION

A. Color Fastness to Rubbing

Data

Signed for and on behalf of BACL

Checked by: Wendy Xiao
 Wendy Xiao
 Test Engineer

Approved by: Jesse Shang
 Jesse Shang
 Laboratory Manager



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Results:

Tested part(s):

- (1) Blue fabric
- (2) Red fabric
- (3) Black fabric

A. Color Fastness to Rubbing (ISO 105 X12:2016(E))

(1)/(2)/(3)

	Warp	Weft
Dry Rubbing (Grade)	4-5	4-5
Wet Rubbing (Grade)	4-5	4-5

Note:

1. Color Fastness Total Uncertainty: ± 0.5 Grade

2. Color Fastness Rating

- Grade 5 Negligible/No Change or Staining
- Grade 4 Color Change or Staining Equivalent to Gray Scale Step 4.
- Grade 3 Color Change or Staining Equivalent to Gray Scale Step 3.
- Grade 2 Color Change or Staining Equivalent to Gray Scale Step 2.
- Grade 1 Color Change or Staining Equivalent to Gray Scale Step 1.

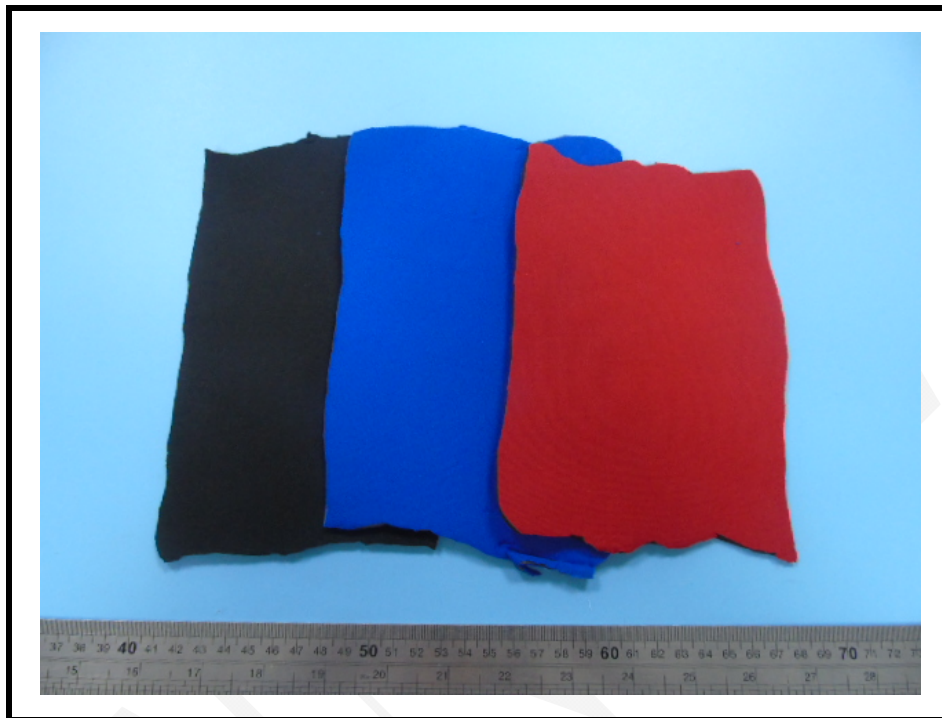
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*** End of Report ***