



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF17F1195525C

Applicant : Mid Ocean Brands B.V.

Address : Unit 201 2/F., Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong.

Manufacturer : 111587

Sample Name : Eyemask

Model No. : MO9233

Test Requested : 1) Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628
2) Determine the specified AZO Colorants contents in the submitted sample in according to the Entries 43 in Annex XVII of the REACH Regulation (EC) No.1907/2006 and the Amendment Regulation (EC) No.552/ 2009 & No.126/ 2013 (previously restricted under Directive 2002/61/EC).
3) Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009
4) As requested by client, to determine the Diisobutyl phthalate (DIBP) content in the submitted samples
5) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.

Test Method : Please refer to next page (s)

Test Conclusion : Please refer to next page (s)

Date of Receipt sample : 2017-11-19

Date of Test : 2017-11-19 to 2017-11-23

Date of Issue : 2017-11-25

Test Result : Please refer to next page (s)

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of reporter and reviewer.

Prepared By:

Waltek Services (Foshan) Co., Ltd.

Address: No. 13-19, 2/F, 2nd Building, Sunlink International Machinery City, Chencun Town, Shunde District, Foshan, Guangdong, China

Tel : +86-757-23811398 Fax: +86-757-23811381

Compiled by:

Approved by:

Swing Liang



Dino Zhang

Swing.Liang /Project Engineer

Dino Zhang /Lab Manager

**Test Result:****1) Lead (Pb)**

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

| Test Item | MDL (mg/kg) | Results (mg/kg) | | | Limit (mg/kg) |
|-------------------|----------------|-----------------|-------------|-------------|------------------|
| | | No.1 | No.2 | No.3 | |
| Lead(Pb) | 2 | ND | ND | ND | 500 |
| Conclusion | -- | Pass | Pass | Pass | -- |

Note:

(1) mg/kg = milligram per kilogram

(2) ND = Not Detected (lower than MDL)

(3) MDL = Method Detection Limit

(4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.

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2) AZO

Test Method: With reference to BS EN 14362-1: 2012 and BS EN 14362-3: 2012, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

| No. | Amines Substances | CAS No. | Limit (mg/kg) | Result (mg/kg) | |
|-------------------|---|----------|---------------|----------------|-------------|
| | | | | No.2 | No.3 |
| 1 | 4-Aminobiphenyl | 92-67-1 | 30 | ND | ND |
| 2 | Benzidine | 92-87-5 | 30 | ND | ND |
| 3 | 4-chloro-o-Toluidine | 95-69-2 | 30 | ND | ND |
| 4 | 2-Naphthylamine | 91-59-8 | 30 | ND | ND |
| 5 | o-Aminoazotoluene | 97-56-3 | 30 | ND | ND |
| 6 | 2-Amino-4-nitrotoluene | 99-55-8 | 30 | ND | ND |
| 7 | p-Chloroaniline | 106-47-8 | 30 | ND | ND |
| 8 | 2,4-diaminoanisol | 615-05-4 | 30 | ND | ND |
| 9 | 4,4'-Diaminodiphenylmethane | 101-77-9 | 30 | ND | ND |
| 10 | 3,3'-Dichlorobenzidine | 91-94-1 | 30 | ND | ND |
| 11 | 3,3'-Dimethoxybenzidine | 119-90-4 | 30 | ND | ND |
| 12 | 3,3'-Dimethylbenzidine | 119-93-7 | 30 | ND | ND |
| 13 | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | 30 | ND | ND |
| 14 | p-cresinin | 120-71-8 | 30 | ND | ND |
| 15 | 4,4'-Methylen-bis-(2-chloroaniline) | 101-14-4 | 30 | ND | ND |
| 16 | 4,4'-Oxydianiline | 101-80-4 | 30 | ND | ND |
| 17 | 4,4'-Thiodianiline | 139-65-1 | 30 | ND | ND |
| 18 | o-Toluidine | 95-53-4 | 30 | ND | ND |
| 19 | 2,4-Toluylendiamine | 95-80-7 | 30 | ND | ND |
| 20 | 2,4,5 – Trimethylaniline | 137-17-7 | 30 | ND | ND |
| 21 | o-anisidine | 90-04-0 | 30 | ND | ND |
| 22 | 4-aminoazobenzene | 60-09-3 | 30 | ND | ND |
| 23 | 2,4-Xylidin | 95-68-1 | 30 | ND | ND |
| 24 | 2,6-Xylidin | 87-62-7 | 30 | ND | ND |
| Conclusion | | -- | -- | Pass | Pass |

Note:

- ND = Not detected or less than the method detection limit
- mg/kg=Milligram per kilogram
- Method Detection Limit (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006



3) Phthalates

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

| Test Items | BBP | DBP | DEHP | DIDP | DINP | DNOP | -- |
|--------------|-------------------------------|-------|-------|-------------------------------|------|-------|------------|
| MDL (%) | 0.005 | 0.005 | 0.005 | 0.01 | 0.01 | 0.005 | -- |
| Limit (%) | sum of three phthalates < 0.1 | | | sum of three phthalates < 0.1 | | | -- |
| Specimen No. | Result (%) | | | | | | Conclusion |
| No.3 | ND | ND | ND | ND | ND | ND | Pass |

Note:

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DINP= Di-isononyl phthalate

DNOP= Di-n-octyl phthalate

DIDP= Di-isodecyl phthalate

(1) % = percentage by weight

(2) ND = Not detected or Less than the method detection limit

(3) MDL=Method Detection Limit

(4) "<" = less than

(5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009(formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.

4) Diisobutyl Phthalate(DIBP)

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

| Test Item(s) | MDL (mg/kg) | Results (mg/kg) | Client's Limit (mg/kg) |
|-----------------------------|----------------|-----------------|------------------------|
| | | No.3 | |
| Diisobutyl phthalate (DIBP) | 50 | ND | 1000 |
| Conclusion | -- | Pass | -- |

Note:

(1) mg/kg=milligram per kilogram=ppm

(2) ND = Not detected or Less than the method detection limit

(3) MDL=Method Detection Limit



5) Colour Fastness to Rubbing

| Colour Fastness to Rubbing* | | | |
|--|-------------|-------------|-----------------------|
| (ISO 105 X12: 2001/Cor 2002; Size of rubbing finger: 16mm diameter.) | | | |
| | No.2 | No.3 | Client's Limit |
| Dry staining | 4-5 | 4-5 | 2-3 |
| Wet staining | 4-5 | 4-5 | 2-3 |
| Conclusion | Pass | Pass | -- |

Note:

- (1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.
- (2) The testing item marked with '*' does not been accredited by CNAS

Test Specimen Description:

- No.1: White nylon table with black printing
 No.2: Navy fabric
 No.3: Black elastic band

Sample photo:





Photographs of parts tested:



==== End of Report ====

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