



TEST REPORT

Applicant: Mid Ocean Brands B.V.

Address: Hermesweg 9,3771 ND Barneveld The Netherlands

Manufacturer:

Address:

Buyer: MID OCEAN HONG KONG LTD.

Supplier: VENDOR CODE: 104438

Sample Name: PU mirror

Model No.: MO9008

Date of Sample Received: Dec. 01, 2016

Test period: Dec. 01, 2016 - Dec. 05, 2016

Test requested:

1. In accordance with Annex X VII item 43 of the REACH regulation (EC) No1907/2006, to determine the Azodyes Release Aromatic Amine content on submitted sample.
2. In accordance with Annex XVII item 63 of the REACH regulation (EC) No.1907/2006 and amendment (EU) 2015/628, to determine the Lead content on submitted sample.
3. In accordance with Annex XVII item 23 of the REACH regulation (EC) No.1907/2006 and amendment (EU) 2016/217, to determine the Cadmium content on submitted sample.
4. In accordance with Annex XV II item 51&52 of the REACH regulation (EC) No.1907/2006 and amendment No.552/2009 (Formerly known as Directive 2005/84/EC), to determine DEHP, DBP, BBP, DINP, DNOP, DIDP content on submitted sample.

Test method: Please refer to next page.

Test result: Please refer to next page.

Tested by

Reviewed by:



Approved by:

Date:

Dec. 05, 2016

Shenzhen NTEK Testing Technology Co., Ltd.

Address: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao' an District, Shenzhen 518126 P.R.China
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Test Results:

1. Azodyes Release Aromatic Amine content test:

Method: With reference to BS EN 14362-1:2012 & BS EN 14362-3:2012, tested by GC-MS.

Code	Aromatic Amine Substances	CAS No.	Unit	MDL	Limit	Results
						No.1
1	4-aminobiphenyl xenylamine	92-67-1	mg/kg	20	---	N.D.
2	benzidine	92-87-5	mg/kg	20	---	N.D.
3	4-chloro-o-toluidine	95-69-2	mg/kg	20	---	N.D.
4	2-naphthylamine	91-59-8	mg/kg	20	---	N.D.
5	* o-aminoazotoluene	97-56-3	mg/kg	20	---	N.D.
6	* 5-nitro-o-toluidine	99-55-8	mg/kg	20	---	N.D.
7	4-chloroaniline	106-47-8	mg/kg	20	---	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	mg/kg	20	---	N.D.
9	4,4'-methylenedianiline	101-77-9	mg/kg	20	---	N.D.
10	3,3'-dichlorobenzidine	91-94-1	mg/kg	20	---	N.D.
11	3,3'-dimethoxybenzidine	119-90-4	mg/kg	20	---	N.D.
12	3,3'-dimethylbenzidine	119-93-7	mg/kg	20	---	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	20	---	N.D.
14	6-methoxy-m-toluidine p-cresidine	120-71-8	mg/kg	20	---	N.D.
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	20	---	N.D.
16	4,4'-oxydianiline	101-80-4	mg/kg	20	---	N.D.
17	4,4'-thiodianiline	139-65-1	mg/kg	20	---	N.D.
18	o-toluidine	95-53-4	mg/kg	20	---	N.D.
19	4-methyl-m-phenylenediamine	95-80-7	mg/kg	20	---	N.D.
20	2,4,5-trimethylaniline	137-17-7	mg/kg	20	---	N.D.
21	o-anisidine	90-04-0	mg/kg	20	---	N.D.
22	4-amino azobenzene	60-09-3	mg/kg	20	---	N.D.
23	2,4-Xylidine	95-68-1	mg/kg	20	---	N.D.
24	2,6-Xylidine	87-62-7	mg/kg	20	---	N.D.
Sum of the above-mentioned Aromatic Amine			mg/kg	---	30	N.D.
Conclusion						Pass

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2. Lead content test:

Method: With reference to US EPA 3050B:1996, tested by ICP-OES.

Test Item	Unit	MDL	Limit	Result		
				No.1	No.2	No.3
Lead (Pb)	mg/kg	2	500	9	N.D.	N.D.
Conclusion				Pass	Pass	Pass

3. Cadmium content test:

Method: With reference to BS EN 1122: 2001, tested by ICP-OES.

Test Item	Unit	MDL	Result		
			No.1	No.2	No.4
Cadmium (Cd)	mg/kg	2	N.D.	N.D.	N.D.
Conclusion			Pass	Pass	Pass

Requirement:

Scope	Limit (mg/kg)
Paint	100
Paint (zinc content is more than 10%)	1000
Articles with paint coating	1000
Polymers	100
Others	---

4. Phthalates content test:

Method: With reference to EN 14372:2004, tested by GC-MS.

Test Items	Unit	MDL	Acceptable Limit		Results
			For all toys and childcare articles	For toys and childcare articles that can be placed in the mouth	
Di (2-ethyl hexyl)-phthalate (DEHP)	mg/kg	30	---	---	N.D.
Butylbenzyl phthalate (BBP)	mg/kg	30	---	---	N.D.
Dibutyl phthalate (DBP)	mg/kg	30	---	---	N.D.
Di-iso-nonyl phthalate (DINP)	mg/kg	100	---	---	N.D.
Di-n-octyl phthalate (DNOP)	mg/kg	30	---	---	N.D.
Diisodecyl phthalate (DIDP)	mg/kg	100	---	---	N.D.
Total (DEHP+ BBP+DBP)	mg/kg	---	1000	1000	N.D.
Total (DINP+DNOP+DIDP)	mg/kg	---	---	1000	N.D.
Conclusion					Pass

Test Part Description:

No.1: Red PU

No.2: Silvery plated plastic frame

No.3: Glass

No.4: White coating

Note:

(1) mg/kg=ppm=0.0001%;

(2) N.D.=Not Detected(<MDL);

(3) MDL=Method Detection Limit;

(4) "---"=Not Conducted;

(5) " * " The o-aminoazotoluene(97-56-3)and 5-nitro-o-toluidine (99-55-8) are further reduced to o-toluidine(95-53-4) and 4-methyl-m-phenylenediamine (95-80-7);

(6) The test results of No.1 are reference to the test report NTEK- 2016NT11300335R

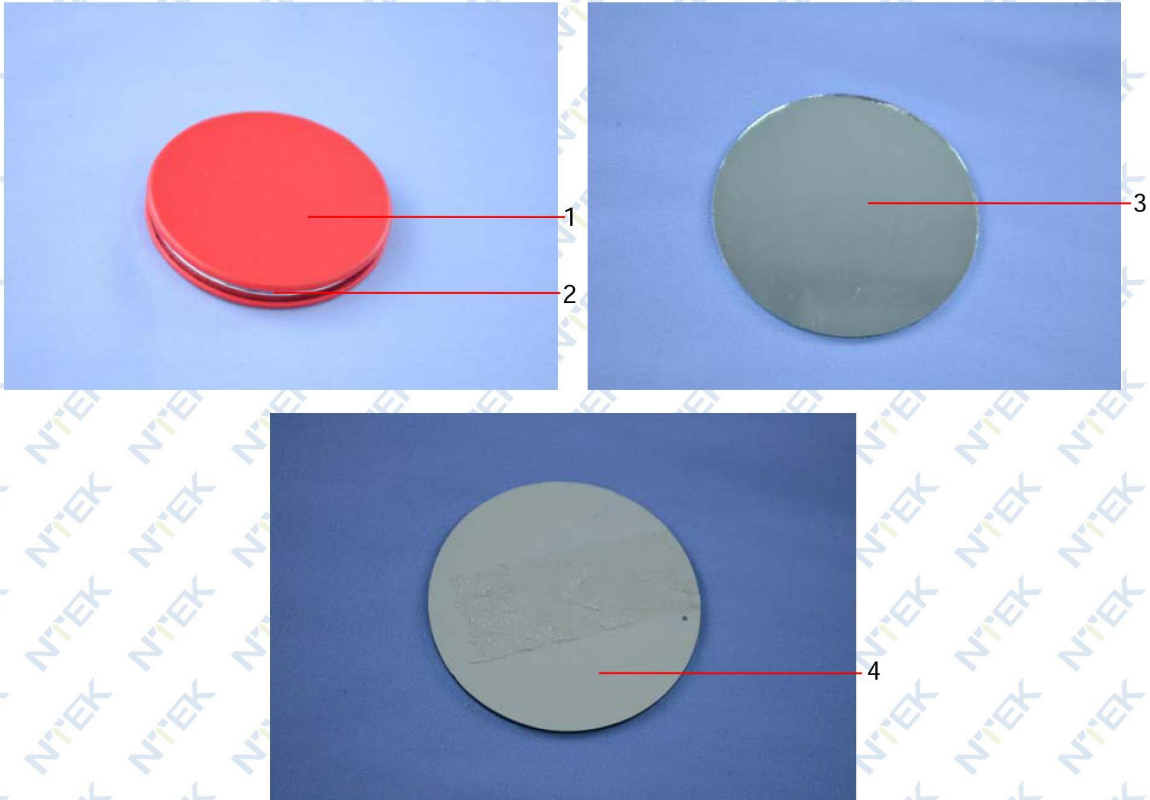
(7) The test results of No.2 to No.4 are reference to the test report NTEK- 2016NT11189956R

(8) The test location is in Dongguan NTEK.

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Photograph of Sample:



End of Report

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TEST REPORT

Applicant: Mid Ocean Brands B.V.
Address: Hermesweg 9,3771 ND Barneveld The Netherlands
Manufacturer:
Address:
Buyer: MID OCEAN HONG KONG LTD.
Supplier: VENDOR CODE: 104438

Sample Name: PU mirror
Model No.: MO9008

Date of Sample Received: Nov. 18, 2016
Test period: Nov. 18, 2016 - Nov. 23, 2016

Test requested:

1. In accordance with Annex X VII item 43 of the REACH regulation (EC) No1907/2006, to determine the Azodyes Release Aromatic Amine content on submitted sample.
2. In accordance with Annex XVII item 63 of the REACH regulation (EC) No.1907/2006 and amendment (EU) 2015/628, to determine the Lead content on submitted sample.
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Test method: Please refer to next page.

Test result: Please refer to next page.

Tested by

Guo L

Reviewed by:



Approved by:

Marta Lisa

Date:

Nov. 23, 2016

Shenzhen NTEK Testing Technology Co., Ltd.

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						No.1
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2	benzidine	92-87-5	mg/kg	20	---	N.D.
3	4-chloro-o-toluidine	95-69-2	mg/kg	20	---	N.D.
4	2-naphthylamine	91-59-8	mg/kg	20	---	N.D.
5	* o-aminoazotoluene	97-56-3	mg/kg	20	---	N.D.
6	* 5-nitro-o-toluidine	99-55-8	mg/kg	20	---	N.D.
7	4-chloroaniline	106-47-8	mg/kg	20	---	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	mg/kg	20	---	N.D.
9	4,4'-methylenedianiline	101-77-9	mg/kg	20	---	N.D.
10	3,3'-dichlorobenzidine	91-94-1	mg/kg	20	---	N.D.
11	3,3'-dimethoxybenzidine	119-90-4	mg/kg	20	---	N.D.
12	3,3'-dimethylbenzidine	119-93-7	mg/kg	20	---	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	20	---	N.D.
14	6-methoxy-m-toluidine p-cresidine	120-71-8	mg/kg	20	---	N.D.
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	20	---	N.D.
16	4,4'-oxydianiline	101-80-4	mg/kg	20	---	N.D.
17	4,4'-thiodianiline	139-65-1	mg/kg	20	---	N.D.
18	o-toluidine	95-53-4	mg/kg	20	---	N.D.
19	4-methyl-m-phenylenediamine	95-80-7	mg/kg	20	---	N.D.
20	2,4,5-trimethylaniline	137-17-7	mg/kg	20	---	N.D.
21	o-anisidine	90-04-0	mg/kg	20	---	N.D.
22	4-amino azobenzene	60-09-3	mg/kg	20	---	N.D.
23	2,4-Xylidine	95-68-1	mg/kg	20	---	N.D.
24	2,6-Xylidine	87-62-7	mg/kg	20	---	N.D.
Sum of the above-mentioned Aromatic Amine			mg/kg	---	30	N.D.
Conclusion						Pass

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2. Lead content test:

Method: With reference to US EPA 3050B:1996, tested by ICP-OES.

Test Item	Unit	MDL	Limit	Result		
				No.1	No.2	No.3
Lead (Pb)	mg/kg	2	500	N.D.	N.D.	N.D.
Conclusion				Pass	Pass	Pass

3. Cadmium content test:

Method: With reference to BS EN 1122: 2001, tested by ICP-OES.

Test Item	Unit	MDL	Result		
			No.1	No.2	No.4
Cadmium (Cd)	mg/kg	2	N.D.	N.D.	N.D.
Conclusion			Pass	Pass	Pass

Requirement:

Scope	Limit (mg/kg)
Paint	100
Paint (zinc content is more than 10%)	1000
Articles with paint coating	1000
Polymers	100
Others	---

4. Phthalates content test:

Method: With reference to EN 14372:2004, tested by GC-MS.

Test Items	Unit	MDL	Acceptable Limit		Results
			For all toys and childcare articles	For toys and childcare articles that can be placed in the mouth	
Di (2-ethyl hexyl)-phthalate (DEHP)	mg/kg	30	---	---	463
Butylbenzyl phthalate (BBP)	mg/kg	30	---	---	N.D.
Dibutyl phthalate (DBP)	mg/kg	30	---	---	N.D.
Di-iso-nonyl phthalate (DINP)	mg/kg	100	---	---	N.D.
Di-n-octyl phthalate (DNOP)	mg/kg	30	---	---	N.D.
Diisodecyl phthalate (DIDP)	mg/kg	100	---	---	N.D.
Total (DEHP+ BBP+DBP)	mg/kg	---	1000	1000	463
Total (DINP+DNOP+DIDP)	mg/kg	---	---	1000	N.D.
Conclusion					Pass

Test Part Description:

No.1: Offwhite PU

No.2: Silvery plated plastic frame

No.3: Glass

No.4: White coating

Note:

(1) mg/kg=ppm=0.0001%;

(2) N.D.=Not Detected(<MDL);

(3) MDL=Method Detection Limit;

(4) "---"=Not Conducted;

(5) " * " The o-aminoazotoluene(97-56-3)and 5-nitro-o-toluidine (99-55-8) are further reduced to o-toluidine(95-53-4) and 4-methyl-m-phenylenediamine (95-80-7);

(6) The test results of No.1 are reference to the test report of Accurate Technology Co., Ltd., which report No. is DGC161101008F01A

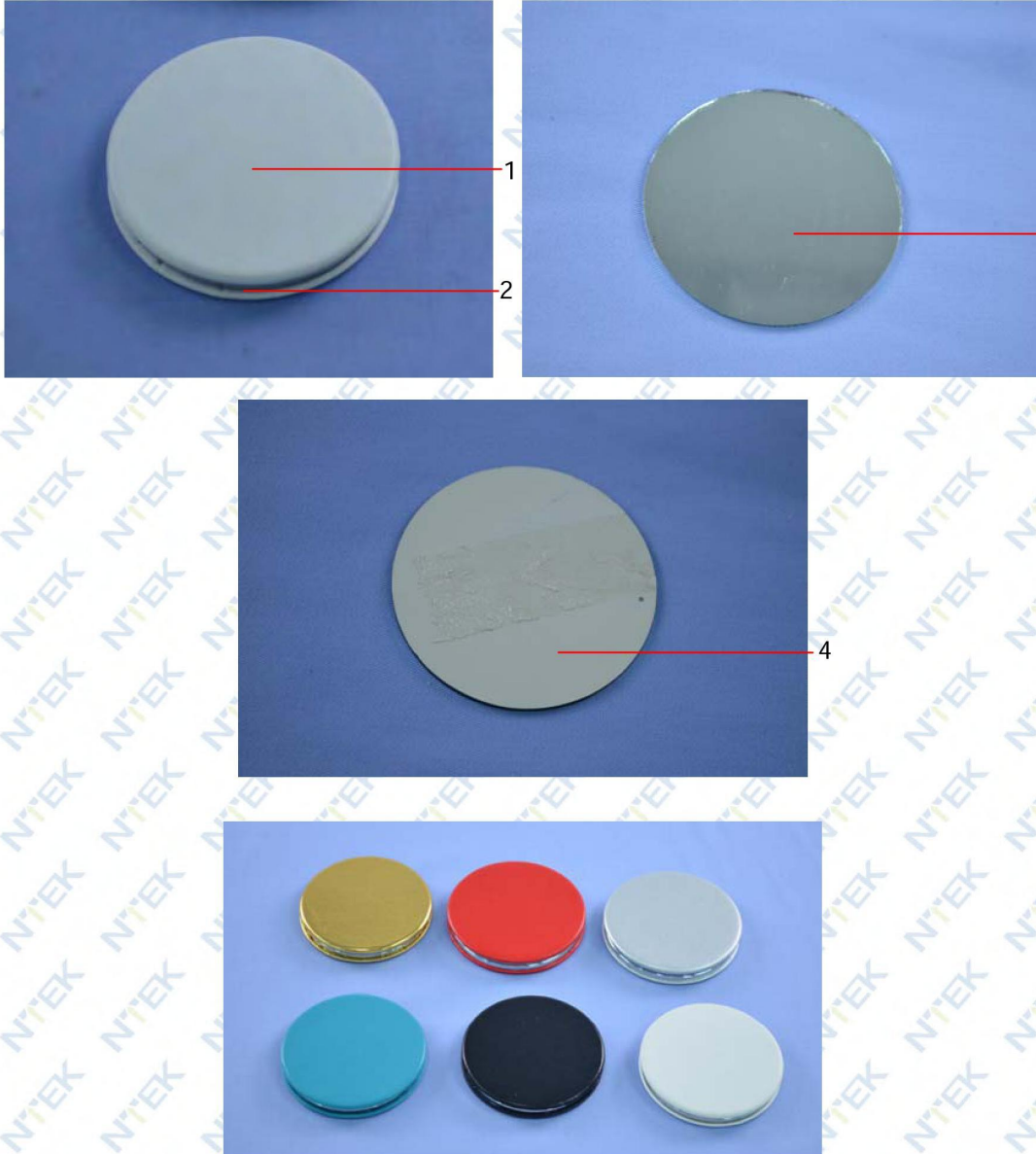
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Photograph of Sample:



End of Report

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