



TEST REPORT

Report No.: STSGZ2111223085E

Date: 29-Nov-2021

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Applicant : Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Foldable seat with carrying strap

Model number: MO6444

Receiving Date: 22-Nov-2021

Test Period: From 22-Nov-2021 to 26-Nov-2021

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Formaldehyde	ISO 14184-1:2011, determined by UV-Vis	SEE RESULT
2	Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
3	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
4	Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS

*****Please refer to the following page for detailed results*****

Tim Qi
(Technical Director)

Susie Lin
(Textile Test Manager)



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#	Test Item(s)	Reference Standard/Method	Result
5	Azo colorants content - Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013	ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC	PASS
6	Colour Fastness to Rubbing	ISO 105-X12:2016	SEE RESULT

Result:

1. Formaldehyde ISO 14184-1:2011, determined by UV-Vis

Compound	Result(s)			Limit (mg/kg)	RL (mg/kg)
	1	2	6		
1 Formaldehyde	N.D.	N.D.	N.D.	-	16

Remark(s): (a) mg/kg: milligrams per kilogram
(b) RL: report limit

2. Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound	Result(s)			Limit (mg/kg)	RL (mg/kg)
	3	4	7		
1 Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	500	10
Conclusion	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

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3. Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		4	5	7		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	100	10
Conclusion		PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

4. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound			Material			Limit (%)	RL (%)
			4	5	7		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	0.1	-
Conclusion			PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

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5. Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment EC No 552/2009 and (EU) No 126/2013
ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC

Compound	Material			Limit (mg/kg)	RL (mg/kg)
	1	2	6		
1 Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	N.D.	N.D.	30	5
2 Benzidine CAS#92-87-5	N.D.	N.D.	N.D.	30	5
3 4-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	N.D.	30	5
4 2-Naphthylamine CAS#91-59-8	N.D.	N.D.	N.D.	30	5
5 o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene ⁺ CAS#97-56-3	N.D.	N.D.	N.D.	30	5
6 5-nitro-o-toluidine/2-amino-4- nitrotoluol ⁺ CAS#99-55-8	N.D.	N.D.	N.D.	30	5
7 4-chloroaniline CAS#106-47-8	N.D.	N.D.	N.D.	30	5
8 4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	N.D.	30	5
9 4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	N.D.	30	5
10 3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	N.D.	N.D.	30	5
11 3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	N.D.	30	5
12 3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	N.D.	N.D.	30	5
13 4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	N.D.	30	5
14 6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	N.D.	N.D.	30	5
15 4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	N.D.	N.D.	30	5
16 4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	N.D.	30	5
17 4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	N.D.	30	5
18 o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	N.D.	30	5

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19	2,4-diaminotoluene/2,4-toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	N.D.	30	5
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	N.D.	30	5
Conclusion		PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram

(b) N.D.: Not detected (result is less than RL)

(c) RL: Report limit

*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18, CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).

** : Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylenediamine (CAS No. 106-50-3).Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.

6. Colour Fastness to Rubbing - ISO 105-X12:2016

Sample	Result (Grade)	
	Dry	Wet
Black fabric,body	4-5	4

Remark(s): Grey Scale Rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

Material List:

Material #	Position / Sample Description
1	Black fabric,body
2	Black fabric,binding
3	Silvery metal foil
4	Translucent foam

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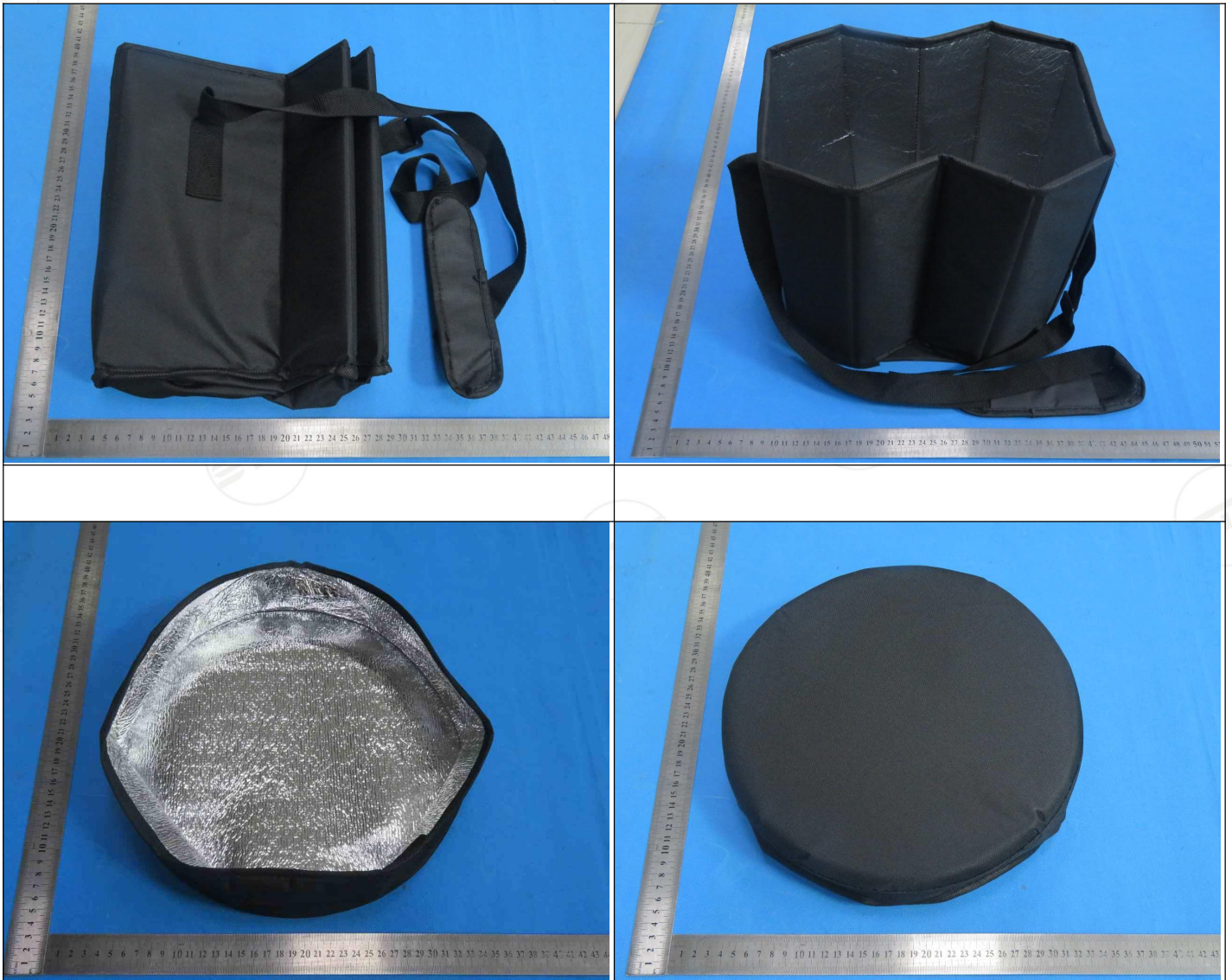
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5	Brown fiberboard
6	Black textile,belt
7	Black plastic,buckle

Photo(s):



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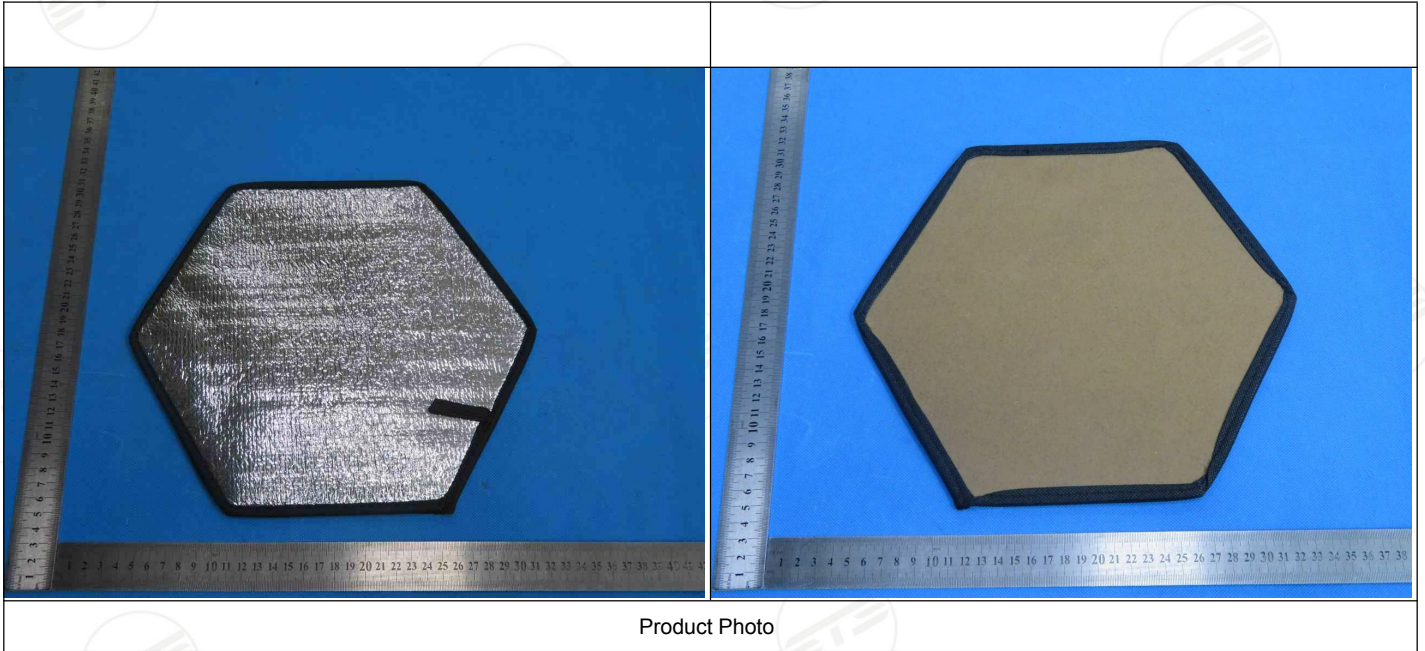


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