Test Report

Report No.: GNBC200821231EN Date: Sep. 04, 2020 Page 1 of 4

The following information was/were submitted and identified by/on behalf of the client:

Applicant	:	Mid Ocean Brands B.V.
Address	:	Unit 201, 2/F, Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, HongKong.
Sample Name	:	KNIT STYLUS GLOVE
Sample Model	:	MO7947
Sample Receive Date	:	Aug. 21, 2020
Sample Testing Period	:	Aug. 21, 2020 - Aug. 27, 2020

Test Result Summary:

As requested by the applicant, for details refer to attached page(s).

TEST ITEM(S)	TEST REQUESTED	CONCLUSION(S)
Lead(Pb) content	Annex XVII items 63 of REACH Regulation (EC) No. 1907/2006 & its amendment (EU) No. 836/2012, (EU) No. 2015/628	PASS
AZO-dyes content	Annex XVII items 43 of REACH Regulation (EC) No. 1907/2006 & amended (EC) No. 552/2009	PASS
Colour Fastness to rubbing	Selected test(s) as requested by client	See Result(s)

Authorized signature:

Lab Manager: Gavin Zhou

Sep. 04, 2020

Test Result(s):

Test Sample Description:

Material No.	Sample Name	Material Description	Location
01	KNIT STYLUS GLOVE	Black textile	Main body of glove
02		White textile	Finger head part of glove

1. Lead(Pb) content

Test Method: US EPA 3052:1996 & US EPA 6010D:2014 & GIG-WI-A3-C-071
/ Acid digest, analysis was performed by ICP-OES

Material No.	Unit	MDL	Limit	Result(s)	Conclusion(s)
01	mg/kg	10	500	N.D.	PASS
02	mg/kg	10	500	N.D.	PASS

Note: 1. 1000mg/kg = 0.1%;
2. MDL = Method Detection Limit;
3. N.D. = Not Detected (<MDL).

2. AZO-dyes content

Test Method: EN ISO 14362-1:2017 & EN ISO 14362-3:2017

Item No.	Test Items	CAS No.	Unit	MDL	Limit	Result(s)	
						01	02
1	4-aminobiphenyl	92-67-1	mg/kg	5	30	N.D.	N.D.
2	benzidine	92-87-5	mg/kg	5	30	N.D.	N.D.
3	4-chloro-o-toluidine	95-69-2	mg/kg	5	30	N.D.	N.D.
4	2-naphthylamine	91-59-8	mg/kg	5	30	N.D.	N.D.
5	o-aminoazotoluene[#a]	97-56-3	mg/kg	5	30	N.D.	N.D.
6	5-nitro-o-toluidine[#a]	99-55-8	mg/kg	5	30	N.D.	N.D.
7	4-chloroaniline	106-47-8	mg/kg	5	30	N.D.	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	30	N.D.	N.D.
9	4,4'-diaminophenylmethane	101-77-9	mg/kg	5	30	N.D.	N.D.
10	3,3'-dichlorobenzidine	91-94-1	mg/kg	5	30	N.D.	N.D.

Item No.	Test Items	CAS No.	Unit	MDL	Limit	Result(s)	
						01	02
11	3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	30	N.D.	N.D.
12	3,3'-dimethylbenzidine	119-93-7	mg/kg	5	30	N.D.	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5	30	N.D.	N.D.
14	p-cresidine	120-71-8	mg/kg	5	30	N.D.	N.D.
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5	30	N.D.	N.D.
16	4,4'-oxydianiline	101-80-4	mg/kg	5	30	N.D.	N.D.
17	4,4'-thiodianiline	139-65-1	mg/kg	5	30	N.D.	N.D.
18	o-Toluidine	95-53-4	mg/kg	5	30	N.D.	N.D.
19	2,4-Toluylendiamine	95-80-7	mg/kg	5	30	N.D.	N.D.
20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	N.D.	N.D.
21	o-anisidine	90-04-0	mg/kg	5	30	N.D.	N.D.
22	4-aminoazobenzene[#b]	60-09-3	mg/kg	5	30	N.D.	N.D.
Conclusion(s)						PASS	PASS

Note: 1. 1000mg/kg = 0.1%;
2. MDL = Method Detection Limit;
3. N.D. = Not Detected (<MDL);
4. a. The CAS numbers 97-56-3 (No. 5) and 99-55-8 (No. 6) are further reduced to CAS numbers 95-53-4 (No. 18) and 95-80-7 (No. 19).
b. Azo colorants that are able to form 4-aminoazobenzene (No. 22), 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, if aniline (CAS No. 62-53-3) and/or 1,4-phenylenediamine (CAS No. 106-50-3) is detected, 4-aminoazobenzene (No. 22) should be further tested by EN ISO 14632-3 method.

3. Colour Fastness to rubbing

Test Method: ISO 105-X12:2016

Test Item	Limit(Grade)*	Result(s) (Grade)	Conclusion(s)
		01	
Colour Fastness to rubbing	Dry: 4-5	Dry: 4-5	PASS
	Wet: 4-5	Wet: 4-5	PASS

Note: 1. "*" = According to client's requirement.

Sample Photo(s):

Test sample

GIG authenticate the photo(s) on original report only

*****End of Report*****