

Test Report

Applicant : Dongguan Senland Industrial Co., Ltd.
Address : 6th Floor, Building C, No. 9, Junpu Industrial Road, Houjie Village, Houjie Town, Dongguan
Manufacturer : Dongguan Senland Industrial Co., Ltd.
Address : 6th Floor, Building C, No. 9, Junpu Industrial Road, Houjie Village, Houjie Town, Dongguan
Sample name : Beeswax Food Wrap
Model No. : N/A
Trademark : N/A
Date of Test : 2024-05-11
Date of Issue : 2024-05-11 to 2024-05-16
Test Method : 1. Overall migration;
2. Specific migration for heavy metal;
3. Specific migration for Primary Aromatic Amines
4. Total Chromium, Vanadium, Zirconium Content
5. Sensorial examination odour and taste test
Results : Please refer to next page(s).
Test Items : **PASS**

TEST REQUEST

For compliance with the German Food, Articles of Daily Use and Feed Code of September 1,2005(LFGB)Section 30 & 31, Regulation (EC)No. 1935/2004, commission Regulation (EU) No 10/2011 and BfR recommendation:

Tim Chen

Test/Witness Engineer



Approved & Authorized



Results:

Description of Specimen: Beeswax cloth

1. Overall migration

Test Method: To refer to the EN 1186-1:2002 & EN 1186-3:2002 & EN 1186-14:2002.

Test Item(s):	Test condition	Result (mg/dm ²)	Requirement (mg/dm ²)
Maximum extractable fraction in 3% Acetic Acid	100°C, 72h	0.2	10
Maximum extractable fraction in 10% Acetic Acid		0.2	10
Maximum extractable fraction in 20% Acetic Acid		0.2	10
Maximum extractable fraction in 50% Acetic Acid		0.6	10
Maximum extractable fraction in 95% Acetic Acid		1.0	10
Maximum extractable fraction in isooctane		1.8	10

Note: mg/dm² = milligram per square decimeter

2. Specific migration for heavy metal

Test Method: To refer to the EN 13130-1: 2004, the analysed by ICP-OES.

Test Item(s):	Test condition	Result (mg/kg)	Requirement (mg/kg)
Barium (Ba)	100°C, 72h 3% Acetic Acid	<0.1	1
Cobalt (Co)		<0.01	0.05
Copper (Cu)		<0.1	5
Iron (Fe)		<2	48
Lithium (Li)		<0.01	0.6
Manganese (Mn)		<0.01	0.6
Zinc (Zn)		<0.1	5
Aluminum (Al)		<0.1	1

Note: mg/kg = milligram per kilogram = ppm <= less than

3. Specific migration for Primary Aromatic Amines

Test Method: To refer to the EN 13130-1: 2004, the analysis was performed by LC-MS.

Analyte	Test condition	Result (mg/kg)	Limit (mg/kg)
Primary Aromatic Amines migration	100°C, 72h 3% Acetic Acid	<0.01	0.01

Note: mg/kg = milligram per kilogram = ppm <= less than

Primary Aromatic Amines List:

No.	Name	No.	Name
1	4-aminodiphenyl	14	p-cresidine
2	Benzidine	15	4,4'-methylene-bis-(2-chloroaniline)
3	4-chloro-o-toluidine	16	4,4'-oxydianiline
4	2-naphthylamineo-aminoazotoluene	17	4,4'-thiodianiline
5	2-amino-4-nitrotolucnep-chloroaniline	18	o-toluidine
6	2,4-diaminoanisole	19	2,4-diaminotoluene
7	4,4'-diaminodiphenylmethane	20	2,4,5-rimethylaniline
8	3,3'-dichlorobenzidine	21	2-methoxyaniline
9	3,3'-dimethoxybenzidine	22	4-aminoazobenzene
10	3,3'-dimethylbenzidine	23	2,4-Xylidine
11	3,3'-dimethyl-4,4'-diaminodiphenylmethane	24	2,6-Xylidine
12	4-aminodiphenyl	25	p-Phenylenediamine
13	Benzidine	26	Aniline

4. Total Chromium, Vanadium, Zirconium Content

Test Method: With reference to US EPA 3052:1996,s performed by ICP-OES.

Test Item	Unit	Result	MDL	Maximum permissible limit (mg/kg)
Chromium	mg/kg	N.D.	10	10
Vanadium	mg/kg	N.D.	10	20
Zirconium	mg/kg	N.D.	10	100

Note: mg/kg= milligram per kilogram=ppm

N.D.= Not Detected (<MDL)

MDL=Method Detection Limit

5. Sensorial examination odour and taste test**Test method: With reference to Robinson's test with reference to DIN10955:2004**

Test Item	Result	Maximum permissible limit
Sensorial examination odour (Point scale)	1.2	2.5
Sensorial examination taste (Point scale)	1.2	2.5

Note:

0=no discernible deviation

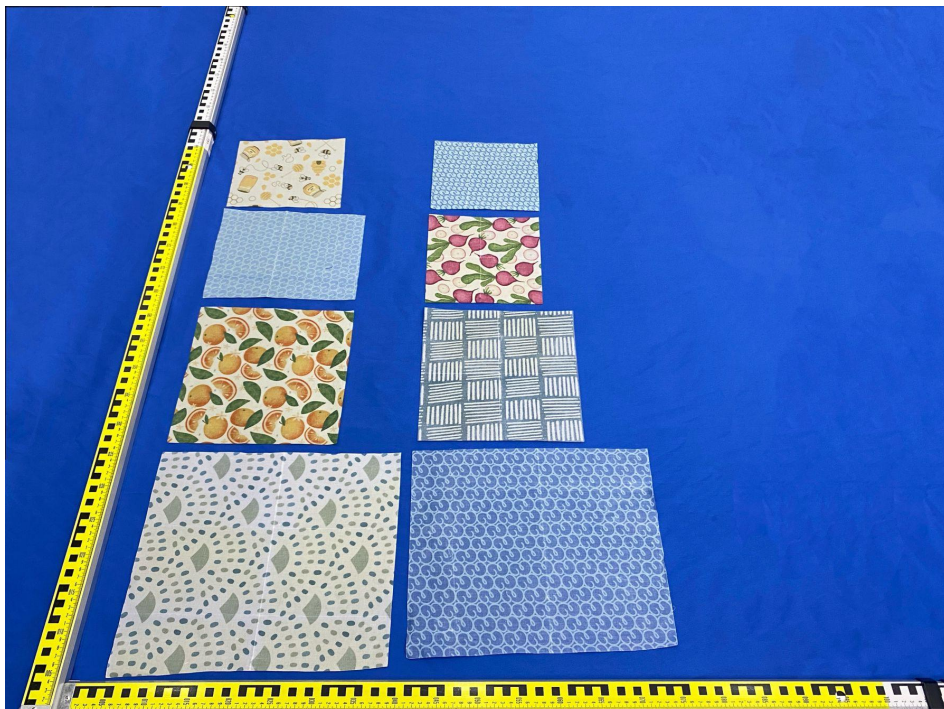
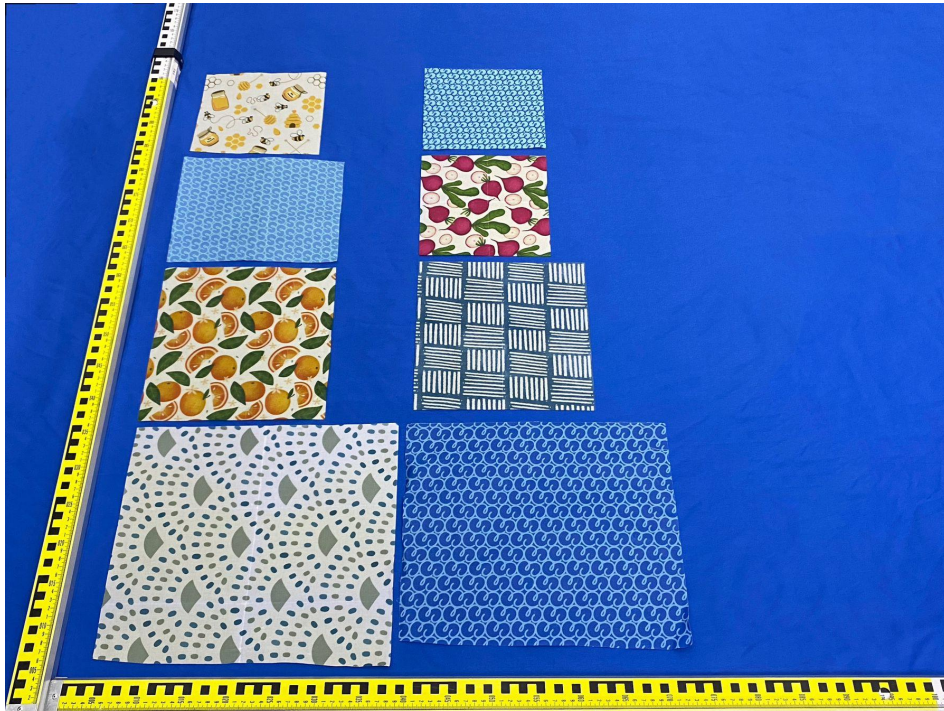
1=barely discernible deviation

2=weak deviation

3=clear deviation

4=strong deviation

Photograph of Sample



END OF REPORT