Test Report

Report No : TST20230760050-6EN Date: Jul.07, 2023 Page 1 of 9

Applicant:	Suzhou Highbright Enterprise Limited
Address:	NO.19-2, Zhongxing Road, Economic Development Zone, Zhangjiagang, JiangSu, China 215600
Manufacturer:	Suzhou Highbright Enterprise Limited
Address:	NO.19-2, Zhongxing Road, Economic Development Zone, Zhangjiagang, JiangSu, China 215600

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name:	Wicker Basket & PVC Liner
Sample Received Date:	Jul.04, 2023
Testing Period:	Jul.04, 2023 To Jul.07, 2023
Test Requested:	In accordance with COMMISSIONREGULATION(EU)No.2017/752, No.2020/1245, (EU) No.10/2011and EU Regulation(EC) No.1935/2004 on materials and articles intended to come into contact with food.
Test Method:	Please refer to next page(s).
Test Result:	Please refer to next page(s).

Signed for and on behalf of:

Andy

Andy Zheng
Technical Director

Dongguan True Safety Testing Co., Ltd. Approve

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Tel:86-769-85088050 4001086960 E-mail:tst@tst-test.com http://www.tst-test.com

Sample Description:

No.	Material
1	PP
2	PVC

Test Result(s):(No.1)

1.1 Sensorial examination odour and taste test

Test Method: Sensorial examination odour and taste test with reference to DIN 10955:2023;
Test condition: Odour test:20℃,24 hours;
Taste test: sunflower oil ,20℃,24 hours;

Test Item (s)	Result	Limit
Sensorial examination odour (Point scale)	0	2.5
Sensorial examination taste (Point scale)	0	2.5

Note: Odour/Taste Grade

0= No perceptible difference

1= Just perceivable difference(still difficult to define)

2= Slight difference

3= Marked difference

4= Strong difference

5. This part of the test is holistic test

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1.2 Overall migration

Method: Refer to EN1186:2002

Material	Test Condition	Limit (mg/dm^2)	Result(mg/dm^2)			Conclusion
			lst	2nd	3rd	
PP	10% Ethanol(v/v),20℃,24 hours	10	＜3	＜3	＜3	PASS
	3% Acetic acid(w/v),20℃,24 hours	10	＜3	＜3	＜3	PASS
	10% Ethanol(v/v),20℃,24 hours	10	＜3	＜3	＜3	PASS

Note:

1.mg/dm^2 = milligram per square decimetre of surface area of material or article.

2.mg/kg = milligrams of the constituents released per kilogram of foodstuff.

3.The requirement in accordance with the Commission Regulation (EU) No.2020/1245.

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1.3 Soluble heavy metal

Method: Refer to EN 13130-1:2004, was analyzed by ICP.

Test Item(s)	Unit	Test conditions	Result(Migration of)			MDL	Limit
			lst	2nd	3rd		
Aluminum(Al)	mg/kg	20℃, 24 hours Acetic acid 3 % (w/v)	N.D.	N.D.	N.D.	0.01	1
Ammonium	mg/kg		N.D.	N.D.	N.D.	0.01	-
Antimony(Sb)	mg/kg		N.D.	N.D.	N.D.	0.01	0.04
Arsenic(As)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Barium(Ba)	mg/kg		N.D.	N.D.	N.D.	0.01	1
Cadmium(Cd)	mg/kg		N.D.	N.D.	N.D.	0.002	N.D.
Calcium(Ca)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Chromium(Cr)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Cobalt(Co)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Copper(Cu)	mg/kg		N.D.	N.D.	N.D.	0.01	5
Europium(Eu)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Gadolinium(Gd)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Iron(Fe)	mg/kg		N.D.	N.D.	N.D.	0.1	48
Lanthanum(La)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Lead(Pb)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Lithium(Li)	mg/kg		N.D.	N.D.	N.D.	0.01	0.6
Magnesium(Mg)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Manganese(Mn)	mg/kg		N.D.	N.D.	N.D.	0.01	0.6
Mercury(Hg)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Nickel(Ni)	mg/kg		N.D.	N.D.	N.D.	0.01	0.02
Potassium(K)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Sodium(Na)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Terbium(Tb)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Zinc(Zn)	mg/kg		N.D.	N.D.	N.D.	0.1	5

Note：

1. mg/kg = ppm
2. N.D. = Not Detected (<MDL)
3. MDL = Method Detection Limit

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1.4 Primary aromatic amines

Method: Refer to EN 13130-1:2004, was analyzed by GC-MS.

No.	Name	CAS No.	Result			MDL
			lst	2nd	3rd	
1	4-Aninobiphenyl	92-67-1	N.D.	N.D.	N.D.	0.002
2	4-Chloro-o-toluidine	95-69-2	N.D.	N.D.	N.D.	0.002
3	2-Naphthylamine	91-59-8	N.D.	N.D.	N.D.	0.002
4	o-Aminoazotoluene	97-56-3	N.D.	N.D.	N.D.	0.002
5	2-Amino-4-nitrotoluene	99-55-8	N.D.	N.D.	N.D.	0.002
6	p-Chloroaniline	106-47-8	N.D.	N.D.	N.D.	0.002
7	2,4-Diaminoanisole	615-05-4	N.D.	N.D.	N.D.	0.002
8	4,4’-Diaminobiphenylmethane	101-77-9	N.D.	N.D.	N.D.	0.002
9	3,3’-Dichlorobenzidine	91-94-1	N.D.	N.D.	N.D.	0.002
10	3,3’-Dmethoxybenzidine	119-90-4	N.D.	N.D.	N.D.	0.002
11	3,3’-Dimethylbenzidine	119-93-7	N.D.	N.D.	N.D.	0.002
12	3,3’-Dimethyl-4,4-diaminobiphenylmethane	838-88-0	N.D.	N.D.	N.D.	0.002
13	p-Cresidine	120-71-8	N.D.	N.D.	N.D.	0.002
14	4,4’-Methylene-bis-（2-chloroaniline）	101-214-4	N.D.	N.D.	N.D.	0.002
15	4,4’-Oxydianiline	101-80-4	N.D.	N.D.	N.D.	0.002
16	4,4’-Thiodianiline	139-65-1	N.D.	N.D.	N.D.	0.002
17	o-Toluidine	95-53-4	N.D.	N.D.	N.D.	0.002
18	2,4-Toluylendiamine	95-80-7	N.D.	N.D.	N.D.	0.002
19	2,4,5-Trimethylaniline	137-17-7	N.D.	N.D.	N.D.	0.002
20	o-Anisidine	90-04-0	N.D.	N.D.	N.D.	0.002
21	2,4-Xylidine	95-68-1	N.D.	N.D.	N.D.	0.002
22	2,6-Xylidine	87-62-7	N.D.	N.D.	N.D.	0.002
23	m-phenylenediamine	108-45-2	N.D.	N.D.	N.D.	0.002
Sum of PAAs		-	N.D.	N.D.	N.D.	0.01

Note：

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Test Result(s):(No.2)

2.1 Sensorial examination odour and taste test

Test Method: Sensorial examination odour and taste test with reference to DIN 10955:2023;
Test condition: Odour test:20℃,24 hours;
Taste test: sunflower oil 20℃,24 hours.

Test Item (s)	Result	Limit
Sensorial examination odour (Point scale)	0	2.5
Sensorial examination taste (Point scale)	0	2.5

Note: Odour/Taste Grade
0= No perceptible difference
1= Just perceivable difference(still difficult to define)
2= Slight difference
3= Marked difference
4= Strong difference
5. This part of the test is holistic test

2.2 Overall migration

Method: Refer to EN1186:2002

Material	Test Condition	Limit (mg/dm^2)	Result(mg/dm^2)			Conclusion
			lst	2nd	3rd	
PVC	10% Ethanol(v/v),20℃,24 hours	10	＜3	＜3	＜3	PASS
	3% Acetic acid(w/v),20℃,24 hours	10	＜3	＜3	＜3	PASS
	10% Ethanol(v/v),20℃,24 hours	10	＜3	＜3	＜3	PASS

Note:

1.mg/dm^2 = milligram per square decimetre of surface area of material or article.
2.mg/kg = milligrams of the constituents released per kilogram of foodstuff.
3.The requirement in accordance with the Commission Regulation (EU) No.2020/1245.

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2.3 Soluble heavy metal

Method: Refer to EN 13130-1:2004, was analyzed by ICP.

Test Item(s)	Unit	Test conditions	Result(Migration of)			MDL	Limit
			lst	2nd	3rd		
Aluminum(Al)	mg/kg	20℃, 24 hours Acetic acid 3 % (w/v)	N.D.	N.D.	N.D.	0.01	1
Ammonium	mg/kg		N.D.	N.D.	N.D.	0.01	-
Antimony(Sb)	mg/kg		N.D.	N.D.	N.D.	0.01	0.04
Arsenic(As)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Barium(Ba)	mg/kg		N.D.	N.D.	N.D.	0.01	1
Cadmium(Cd)	mg/kg		N.D.	N.D.	N.D.	0.002	N.D.
Calcium(Ca)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Chromium(Cr)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Cobalt(Co)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Copper(Cu)	mg/kg		N.D.	N.D.	N.D.	0.01	5
Europium(Eu)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Gadolinium(Gd)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Iron(Fe)	mg/kg		N.D.	N.D.	N.D.	0.1	48
Lanthanum(La)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Lead(Pb)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Lithium(Li)	mg/kg		N.D.	N.D.	N.D.	0.01	0.6
Magnesium(Mg)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Manganese(Mn)	mg/kg		N.D.	N.D.	N.D.	0.01	0.6
Mercury(Hg)	mg/kg		N.D.	N.D.	N.D.	0.01	N.D.
Nickel(Ni)	mg/kg		N.D.	N.D.	N.D.	0.01	0.02
Potassium(K)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Sodium(Na)	mg/kg		N.D.	N.D.	N.D.	0.01	-
Terbium(Tb)	mg/kg		N.D.	N.D.	N.D.	0.01	0.05
Zinc(Zn)	mg/kg		N.D.	N.D.	N.D.	0.1	5

Note：

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2.4 Primary aromatic amines

Method: Refer to EN 13130-1:2004, was analyzed by GC-MS.

No.	Name	CAS No.	Result			MDL
			lst	2nd	3rd	
1	4-Aninobiphenyl	92-67-1	N.D.	N.D.	N.D.	0.002
2	4-Chloro-o-toluidine	95-69-2	N.D.	N.D.	N.D.	0.002
3	2-Naphthylamine	91-59-8	N.D.	N.D.	N.D.	0.002
4	o-Aminoazotoluene	97-56-3	N.D.	N.D.	N.D.	0.002
5	2-Amino-4-nitrotoluene	99-55-8	N.D.	N.D.	N.D.	0.002
6	p-Chloroaniline	106-47-8	N.D.	N.D.	N.D.	0.002
7	2,4-Diaminoanisole	615-05-4	N.D.	N.D.	N.D.	0.002
8	4,4’-Diaminobiphenylmethane	101-77-9	N.D.	N.D.	N.D.	0.002
9	3,3’-Dichlorobenzidine	91-94-1	N.D.	N.D.	N.D.	0.002
10	3,3’-Dmethoxybenzidine	119-90-4	N.D.	N.D.	N.D.	0.002
11	3,3’-Dimethylbenzidine	119-93-7	N.D.	N.D.	N.D.	0.002
12	3,3’-Dimethyl-4,4-diaminobiphenylmethane	838-88-0	N.D.	N.D.	N.D.	0.002
13	p-Cresidine	120-71-8	N.D.	N.D.	N.D.	0.002
14	4,4’-Methylene-bis-（2-chloroaniline）	101-214-4	N.D.	N.D.	N.D.	0.002
15	4,4’-Oxydianiline	101-80-4	N.D.	N.D.	N.D.	0.002
16	4,4’-Thiodianiline	139-65-1	N.D.	N.D.	N.D.	0.002
17	o-Toluidine	95-53-4	N.D.	N.D.	N.D.	0.002
18	2,4-Toluylendiamine	95-80-7	N.D.	N.D.	N.D.	0.002
19	2,4,5-Trimethylaniline	137-17-7	N.D.	N.D.	N.D.	0.002
20	o-Anisidine	90-04-0	N.D.	N.D.	N.D.	0.002
21	2,4-Xylidine	95-68-1	N.D.	N.D.	N.D.	0.002
22	2,6-Xylidine	87-62-7	N.D.	N.D.	N.D.	0.002
23	m-phenylenediamine	108-45-2	N.D.	N.D.	N.D.	0.002
Sum of PAAs		-	N.D.	N.D.	N.D.	0.01

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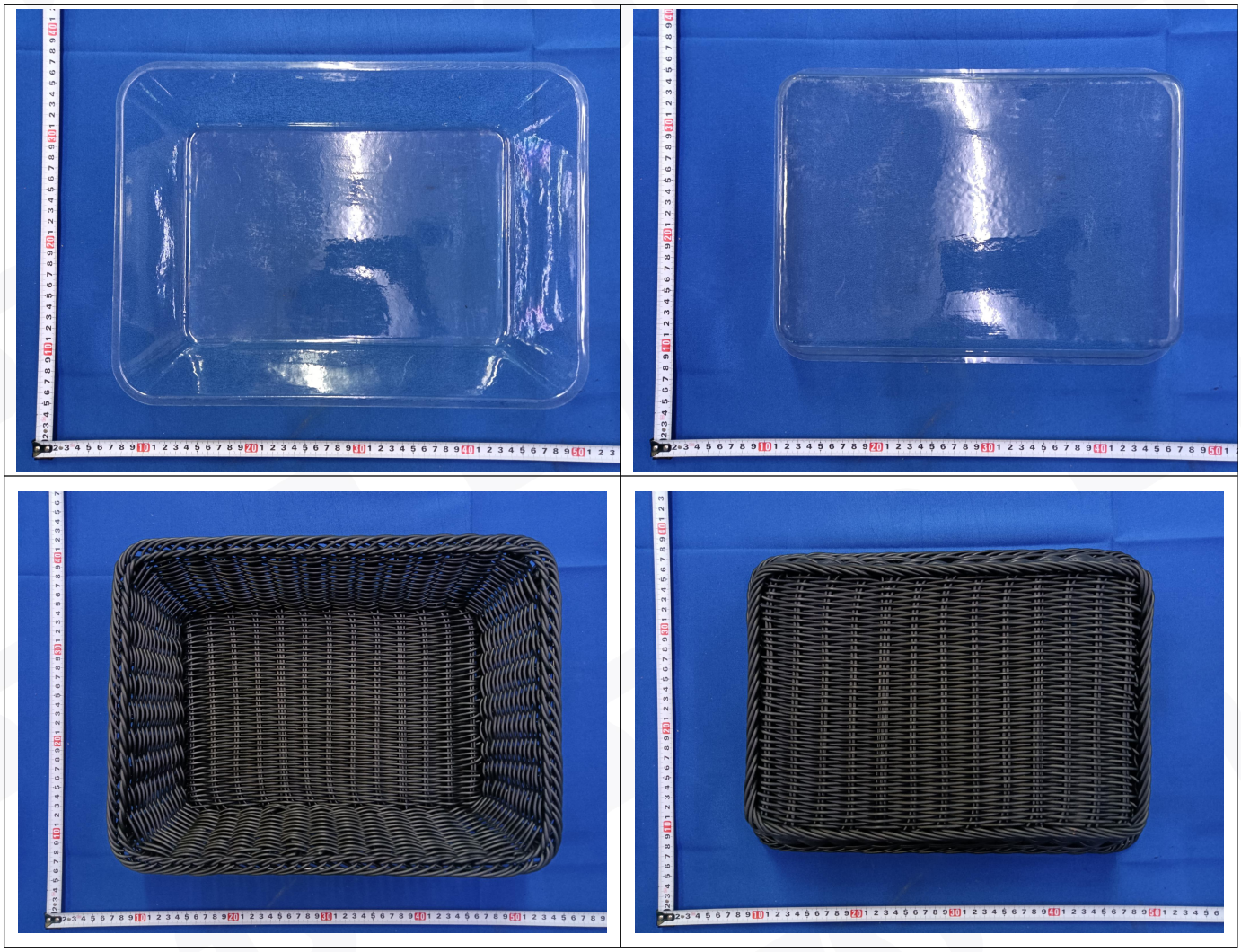
Sample photo:



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