

Test Report No.: 68.431.23.3363.01

Dated: 2023-09-07



Applicant : The Dream Farm PTY LTD
9 Amy Street, Albion QLD 4010, Australia

Sample Description : Egger

Product Type/ End use : Egg Peeler

Style No. : DF_EGP_A01, etc

PO No. / Order No. : NA

Supplier : MMP

Manufacturer : MMP

Country of Origin : China

Country of Destination : Australia, USA, Europe, Japan

Test Sample Receipt Date, Location : 2023-08-24, Shenzhen

Test Period, Location : From 2023-08-24 to 2023-09-05, Shenzhen

Test Result(s) : Refer to Section 3

Regd. Office:

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Lab 1 - Chemical testing and
part of electrical testing
Lab 2 - Physical & mechanical
testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China
Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

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Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
	As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the German Food & Feed Acts LFGB (§ 30 & 31) and Regulation (EC) No.1935/2004	
1	Overall Migration	Pass
2	Specific Migration of PAA	Pass
3	Specific Migration of PAAs	Pass
4	Specific Migration of Heavy Metals	Pass
5	Peroxide	Pass
6	Total Cr, V, Zr, Hf	Pass
7	Extractable 23 Heavy Metals Test as specified in EDQM Technical Guide Council of Europe Resolution CM/Res(2013)9	Pass
8	Sensory test Test for compliance with German Food and Feed Acts LFGB Section 31 and Regulation (EC) No. 1935/2004 Article 3(1)	Pass
9	FDA CFR Title 21 Part 177.1520 (PP/PE Copolymer) Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520	Pass
10	Total Chromium Content Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel	Pass
11	FDA CFR Title 21 Part 177.1520 (PP Homopolymer) Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520	See Test Result

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) The test items and samples were specified by the client
- (4) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

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TÜV SÜD Group

Prepared by:

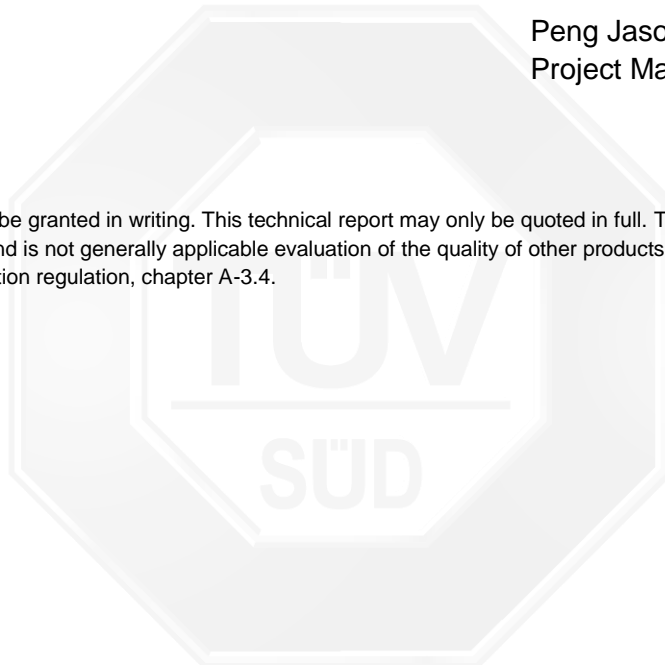
Reviewed by:



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Senior Project Coordinator

Peng Jason
Project Manager

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1. Description of the Test Sample:

Sample Description	Egglar
	



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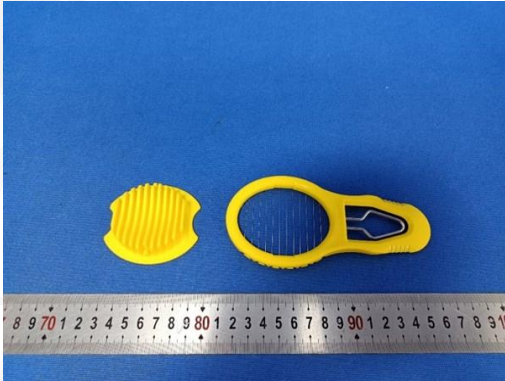

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2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Whole product (Eggler)	
T2	002	Yellow PP-HO plastic (Pusher)	
T3	003	Yellow PPGF-CO plastic (Body)	
T4	004	Silver stainless steel 304 (Screw)	

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3. Test Result

3.1 Overall Migration

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V, test with reference to: EN 1186-1:2002 (Guide to the selection of conditions and test methods for overall migration) EN 1186-3:2022 (Test methods for overall migration in evaporable simulants) [Reporting Limit: 3mg/dm²]

TEST ITEM	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration	
50% Ethanol	70°C for 2 Hours	ND	ND	ND	<10
Conclusion:		Pass*			--

TEST ITEM	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration	
50% Ethanol	70°C for 2 Hours	ND	ND	ND	<10
Conclusion:		Pass*			--

- Note 1. "°C" denotes degree Celsius
 2. "<" denotes less than
 3. "mg/dm²" denotes milligram per square decimeter
 4. "ND" denotes below the Reporting Limit
 5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments
 6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

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3.2 Specific Migration of PAA

Test method: with reference to EN 13130-1:2004, follow by Ultraviolet and visible spectrophotometry (UV-Vis).

Test Conditions: 10% Ethanol: 70 °C for 0.5 Hour

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments

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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 10% Ethanol: 70 °C for 0.5 Hour

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration	
4-Aminobiphenyl (4-ABP)	ND	ND	ND	<0.002
Aniline (ANL)	ND	ND	ND	<0.002
o-Anisidine (o-ASD)	ND	ND	ND	<0.002
Benzidine (BNZ)	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)	ND	ND	ND	<0.002
o-Toluidine (o-T)	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)	ND	ND	ND	<0.002
2-naphthylamine	ND	ND	ND	<0.002
o-aminoazotoluene	ND	ND	ND	<0.002
5-nitro-o-toluidine	ND	ND	ND	<0.002
3,3'-dichlorobenzidine	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)	ND	ND	ND	<0.002
4,4'-thiodianiline	ND	ND	ND	<0.002
4-amino azobenzene	ND	ND	ND	<0.002
Conclusion:	Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 10% Ethanol: 70 °C for 0.5 Hour

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration	
4-Aminobiphenyl (4-ABP)	ND	ND	ND	<0.002
Aniline (ANL)	ND	ND	ND	<0.002
o-Anisidine (o-ASD)	ND	ND	ND	<0.002
Benzidine (BNZ)	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)	ND	ND	ND	<0.002
o-Toluidine (o-T)	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)	ND	ND	ND	<0.002
2-naphthylamine	ND	ND	ND	<0.002
o-aminoazotoluene	ND	ND	ND	<0.002
5-nitro-o-toluidine	ND	ND	ND	<0.002
3,3'-dichlorobenzidine	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)	ND	ND	ND	<0.002
4,4'-thiodianiline	ND	ND	ND	<0.002
4-amino azobenzene	ND	ND	ND	<0.002
Conclusion:	Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: Distilled Water: 70 °C for 0.5 Hour

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration		
Aluminium (Al)	ND	ND	ND	<0.1	<1
Antimony (Sb)	ND	ND	ND	<0.01	<0.04
Arsenic (As)	ND	ND	ND	<0.01	<0.01
Barium (Ba)	ND	ND	ND	<0.1	<1
Cadmium (Cd)	ND	ND	ND	<0.002	<0.002
Chromium (Cr)	ND	ND	ND	<0.01	<0.01
Cobalt (Co)	ND	ND	ND	<0.05	<0.05
Copper (Cu)	ND	ND	ND	<0.5	<5
Iron (Fe)	ND	ND	ND	<1.0	<48
Lead (Pb)	ND	ND	ND	<0.01	<0.01
Lithium (Li)	ND	ND	ND	<0.1	<0.6
Manganese (Mn)	ND	ND	ND	<0.05	<0.6
Mercury (Hg)	ND	ND	ND	<0.01	<0.01
Nickel (Ni)	ND	ND	ND	<0.01	<0.02
Zinc (Zn)	ND	ND	ND	<1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	<0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

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3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments

6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: Distilled Water: 70 °C for 0.5 Hour

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration		
Aluminium (Al)	ND	ND	ND	<0.1	<1
Antimony (Sb)	ND	ND	ND	<0.01	<0.04
Arsenic (As)	ND	ND	ND	<0.01	<0.01
Barium (Ba)	ND	ND	ND	<0.1	<1
Cadmium (Cd)	ND	ND	ND	<0.002	<0.002
Chromium (Cr)	ND	ND	ND	<0.01	<0.01
Cobalt (Co)	ND	ND	ND	<0.05	<0.05
Copper (Cu)	ND	ND	ND	<0.5	<5
Iron (Fe)	ND	ND	ND	<1.0	<48
Lead (Pb)	ND	ND	ND	<0.01	<0.01
Lithium (Li)	ND	ND	ND	<0.1	<0.6
Manganese (Mn)	ND	ND	ND	<0.05	<0.6
Mercury (Hg)	ND	ND	ND	<0.01	<0.01
Nickel (Ni)	ND	ND	ND	<0.01	<0.02
Zinc (Zn)	ND	ND	ND	<1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	<0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

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3.5 Peroxide

Test method : With reference to 58th Communication on the testing of plastics, Bundesgesundheitsbl. 40 (1997) 412.

TEST ITEM	RESULTS		MAXIMUM PERMISSIBLE LIMIT
	SAMPLE 002	SAMPLE 003	
Peroxide Value	Absent	Absent	Absent
Conclusion	Pass	Pass	-

Note:

- The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr” Part VII “Polypropylene”.

3.6 Total Cr, V, Zr, Hf

Test method: Microwave digestion, followed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

TEST ITEM	RESULTS [mg/kg]		MAXIMUM PERMISSIBLE LIMIT [mg/kg]
	SAMPLE 002	SAMPLE 003	
Chromium (Cr)	7.7	<2.0	10
Vanadium (V)	<15.0	<15.0	20
Zirconium (Zr)	34.7	<15.0	100
Hafnium (Hf)	<15.0	<15.0	100
Conclusion	Pass	Pass	-

Note 1. “<” denotes less than

2. “mg/kg” denotes milligram per kilogram

3. The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr” Part VII “Polypropylene”.

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3.7 Extractable 23 Heavy Metals

Test as specified in EDQM Technical Guide Council of Europe Resolution CM/Res(2013)9
 Sample(s) was tested with below test condition, and followed by ICP-OES and ICP-MS analysis
 Test Conditions: artificial tap water: 70 °C for 0.5 Hour

Elements	Result(s) of 1 st + 2 nd Migration [mg/kg foodstuff]	Result(s) of 3 rd Migration [mg/kg foodstuff]	7*Maximum Permissible Limits [mg/kg g foodstuff]	Maximum Permissible Limits [mg/kg g foodstuff]
	SAMPLE 004			
1. Aluminum (Al)	<0.2	<0.1	35	5
2. Antimony (Sb)	<0.01	<0.005	0.28	0.04
3. Arsenic (As)	<0.0008	<0.0004	0.014	0.002
4. Barium(Ba)	<0.2	<0.1	8.4	1.2
5. Beryllium (Be)	<0.004	<0.002	0.07	0.01
6. Cadmium (Cd)	<0.0008	<0.0004	0.035	0.005
7. Chromium (Cr)	<0.10	<0.050	1.75	0.25
8. Cobalt (Co)	<0.004	<0.002	0.14	0.02
9. Copper (Cu)	<0.2	<0.1	28	4
10. Iron (Fe)	<0.2	<0.1	280	40
11. Lead (Pb)	<0.02	<0.01	0.07	0.01
12. Lithium (Li)	<0.01	<0.005	0.336	0.048
13. Magnesium (Mg)	8.1	4.16	-	-
14. Manganese (Mn)	<0.2	<0.1	12.6	1.8
15. Mercury (Hg)	<0.001	<0.0005	0.021	0.003
16. Molybdenum (Mo)	<0.004	<0.002	0.84	0.12
17. Nickel (Ni)	<0.1	<0.05	0.98	0.14
18. Silver (Ag)	<0.004	<0.002	0.56	0.08
19. Thallium (Tl)	<0.0002	<0.0001	0.0007	0.0001
20. Tin (Sn)	<1.0	<0.5	700	100
21. Titanium (Ti)	<0.1	<0.05	-	-
22. Vanadium (V)	<0.004	<0.002	0.07	0.01
23. Zinc (Zn)	<0.2	<0.1	35	5

- Note 1. “°C” denotes degree Celsius
 2. “<” denotes less than
 3. “mg/kg” denotes milligram per kilogram

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3.8 Sensory test

Test for compliance with German Food and Feed Acts LFGB Section 31 and Regulation (EC) No. 1935/2004 Article 3(1)

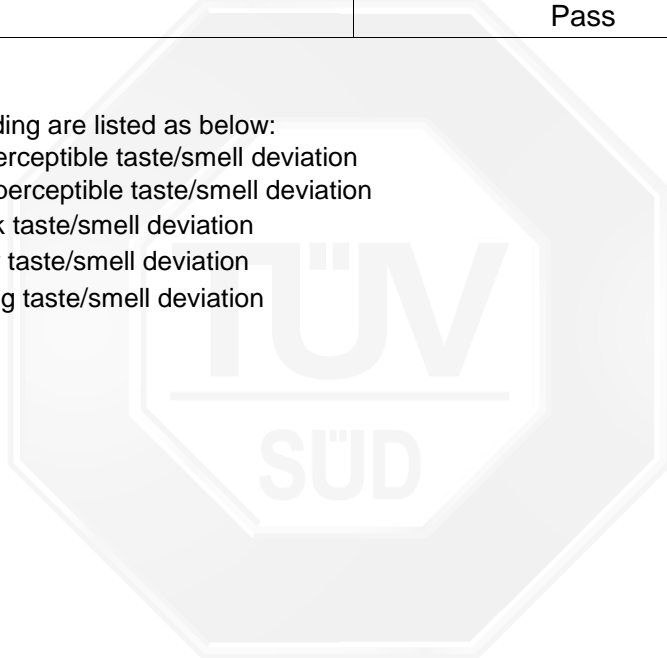
Test method: With reference to DIN 10955:2023.

The submitted sample was treated with below test conditions. After this treatment, treated food simulant was examined by panels with regard to any divergence in smell and taste.

Test Item	Test Conditions	Grade Results	Recommend Level
		Sample 001	
Transfer of smell	Distilled water: 70°C for 0.5 Hour	1	<3.0
Transfer of taste	Distilled water: 70°C for 0.5 Hour	1	<3.0
Conclusion		Pass	-

Note:

- Explanation for grading are listed as below:
 - Grade 0 : No perceptible taste/smell deviation
 - Grade 1 : Just perceptible taste/smell deviation
 - Grade 2 : Weak taste/smell deviation
 - Grade 3 : Clear taste/smell deviation
 - Grade 4 : Strong taste/smell deviation



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3.9 FDA CFR Title 21 Part 177.1520 (PP/PE Copolymer)

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520

TEST ITEMS	RESULTS	CFR Specification [PP/PE Copolymer]
	SAMPLE 003	
Density [g/cc]	0.907	0.85 - 1.00
Maximum extractive in n-hexane 50°C for 2 hours [%]	<1.00	5.5
Maximum extractive in xylene after reflux for 2 hours and 25°C for 1 hour [%]	1.27	30
Conclusion	Pass	-

Note:

1. “%” denotes percentage by weight
2. “g/cc” denotes gram per cubic centimeter
3. “<” denotes less than
4. “°C” denotes degree Celsius
5. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1520

3.10 Total Chromium Content

Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel

Test Method: Digested by acid and analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Analyte	Results [%]
	Sample 004
Total Chromium(Cr)	17.74
Limit	Not less than 16
Conclusion	Pass

Note:

- “%” denotes percentage by weight

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Test Report No.: 68.431.23.3363.01

Dated: 2023-09-07



3.11 FDA CFR Title 21 Part 177.1520 (PP Homopolymer)

Test with reference to U.S. F.D.A. C.F.R. 21. Part 177.1520

TEST ITEMS	RESULTS	CFR Specification [PP Homopolymer]
	SAMPLE 002	
Melting Point Range [°C]	169-173	-
Density [g/cc]	1.043	-
Maximum extractive in n-hexane after reflux for 2 hours [%]	<1.00	-
Maximum extractive in xylene after Dissolved completely at 120°C and 25°C for 1 hour [%]	2.75	-
Conclusion	Report As Is	-

Note:

1. “%” denotes percentage by weight
2. “g/cc” denotes gram per cubic centimeter
3. “<” denotes less than
4. “°C” denotes degree Celsius

-- END OF TEST REPORT--

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