



Test Report

Date: JUN 02, 2024 Page 1 of 8

The following samples were submitted and identified by/on behalf of the client as:

DISPOSABLE BIODEGRADABLE TABLEWARE

Item No. : 7197/7198
Buyer :
Manufacturer :
Manufacturer Address :
Country of Origin :

Sample Receiving Date : MAY 23, 2024
Further Information Date : JUN 02, 2024
Testing Period : MAY 23, 2024 TO JUN 02, 2024



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Test Report

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Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1.	Article 3 of European Regulation No. 1935/2004	--
	a) Sensorial Examination - Odour and Taste Test	PASS
2.	Italian Decree of Ministry of Health of 21 March 1973 and European Commission Regulation (EU) No 10/2011 and its amendments	--
	a) Plastic – Overall Migration	PASS
	b) Plastic – Color Migration	PASS
	c) Plastic – Specific Migration of Heavy Metals	PASS
3.	The United State Code of Federal Regulations 21 CFR 177.1520 (FDA) - density, melting point, maximum extractable fraction in n-hexane, and maximum soluble fraction in xylene	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center

Jia Fengjuan, Shelly
Dept. Manager



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Shenzhen Branch Testing Center Hardlines

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Results:

Article 3 of European Regulation No. 1935/2004

a) Sensorial Examination - Odour and Taste Test

Method : With reference to DIN10955:2023.
 Test Condition : 70°C for 2 hours
 Test media: Deionised Water
 No. of panelist: 6

Test Item	Result	Permissible Limit
	1	
Sensorial examination odour (Intensity scale)	0.5	< 3
Sensorial examination taste (Intensity scale)	0.5	< 3
Comment	PASS	--

Sample Description :

1. Translucent white plastic (Plate)

Note : 1. <= less than
 2. Intensity scale (rounded at 0.5) :

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference



Italian Decree of Ministry of Health of 21 March 1973 and European Commission Regulation (EU) No 10/2011 and its amendments

a) Plastic – Overall Migration

Method : With reference to EN 1186-1:2002 for selection of conditions and test methods (1st migration);
 or EN 1186-2:2022 Test methods for overall migration in vegetable oils
 or EN 1186-3:2022 Test methods for overall migration in evaporable simulants
 or EN 1186-13:2002 Method B – adsorption by modified polyphenylene oxide. (for MPPO)

Simulant Used	Test Condition	Migration Result (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
		1		
3% Acetic Acid (W/V)	2 hours at 70°C	ND	3.0	10
10% Ethanol (V/V)	2 hours at 70°C	ND	3.0	10
Fatty Food Substitute				
95% Ethanol	2 hours at 60°C	ND	3.0	10
Isooctane	0.5 hours at 40°C	ND	3.0	10
Comment	--	PASS	--	--

Sample Description:

1. Translucent white plastic (Plate)

Note : 1. mg/dm² = milligram per square decimeter
 2. °C = degree Celsius
 3. ND = Not Detected

Remark :

1. Unless further specified, the ratio of surface area to volume is 1 dm² per 100 mL of foodstuff in contact with.



b) Plastic – Color Migration

Method : With reference to Italian Ministerial Decree of 21 March 1973 Annex IV section 7.

Simulant Used	Result	Requirement
	1	
3% Acetic Acid (W/V)	99.8% optical transmission	Not less than 95% optical transmission
10% Ethanol (V/V)	99.2% optical transmission	Not less than 95% optical transmission
Sunflower oil	98.9% optical transmission	Not less than 95% optical transmission
Comment	PASS	--

Sample Description:

1. Translucent white plastic (Plate)



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c) Plastic – Specific Migration of Heavy Metals

Method: Sample preparation in 3% acetic acid (w/v) at 70°C for 2 hours with reference to EN 13130-1:2004; followed by analysis using Inductively coupled plasma (ICP). (1st migration).

Test Item	Migration Result	Reporting Limit	Permissible Limit
	1		
Surface area to volume ratio (dm ² /kg)	6.36	--	--
Specific Migration of Aluminum (mg/kg)	ND	0.1	1
Specific Migration of Antimony (mg/kg)	ND	0.01	0.04
Specific Migration of Arsenic (mg/kg)	ND	0.01	0.01
Specific Migration of Barium (mg/kg)	ND	0.25	1
Specific Migration of Cadmium (mg/kg)	ND	0.002	0.002
Specific Migration of Chromium (mg/kg)	ND	0.01	0.01
Specific Migration of Cobalt (mg/kg)	ND	0.01	0.05
Specific Migration of Copper (mg/kg)	ND	0.25	5
Specific Migration of Europium (mg/kg)	ND	0.025	0.05
Specific Migration of Gadolinium (mg/kg)	ND	0.025	0.05
Specific Migration of Iron (mg/kg)	ND	5	48
Specific Migration of Lanthanum (mg/kg)	ND	0.025	0.05
Specific Migration of Lead (mg/kg)	ND	0.01	0.01
Specific Migration of Lithium (mg/kg)	ND	0.1	0.6
Specific Migration of Manganese (mg/kg)	ND	0.1	0.6
Specific Migration of Mercury (mg/kg)	ND	0.01	0.01
Specific Migration of Nickel (mg/kg)	ND	0.01	0.02
Specific Migration of Terbium (mg/kg)	ND	0.025	0.05
Specific Migration of Zinc (mg/kg)	ND	0.5	5
Sum of Lanthanide substances (Europium, Gadolinium, Lanthanum and Terbium) (mg/kg)	ND	--	0.05
Comment	PASS	--	--

Sample Description:

1. Translucent white plastic (Plate)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
 2. °C = degree Celsius
 3. ND = Not Detected
 4. dm²/kg = square decimeter per kilogram



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FDA 21 CFR 177.1520 - PP (Homo-polymer)

Method: With reference to 21 CFR 177.1520

Test Item(s)	1	Permissible Limit
Alias No.	1	--
Tracing No.	1	--
1. Density (g/cm ³)	0.908	0.880-0.913
2. Melting point (°C)	162	160 – 180
3. Maximum extractable fraction in n-hexane (w/w)	0.6%	6.4% at reflux temperature
4. Maximum soluble fraction in xylene (w/w)	3.0%	9.8% at 25°C

Specimen Description:

1. Translucent white plastic (Plate)

Note: - % = percentage by weight
 - g/cm³ = gram per cubical centimeter
 - °C = degree Celsius

Remark:

1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012)- When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability(k=2), w = U₉₅. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below T_U-U₉₅

Fail - when the measurement result is above T_U+U₉₅

Inconclusive - when the measurement result is falling in guard band [T_U-U₉₅, T_U+U₉₅]

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above T_L+U₉₅

Fail - when the measurement result is below T_L-U₉₅

Inconclusive - when the measurement result is falling in guard band [T_L-U₉₅, T_L+U₉₅]



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Sample Picture (As received)

Pic.1



SGS authenticate the photo on original report only

*** End of Report ***

