

Test Report

Report No. A2240535147101001

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Company Name SHANGHAI WALLIS TECHNOLOGY CO.,LTD
shown on Report
Address NO.912 YECHENG ROAD, JIADING INDUSTRY AREA,
SHANGHAI, CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name PET-G membrane
Sample Received Date Sep. 2, 2024
Testing Period Sep. 2, 2024 to Sep. 18, 2024

Test Conducted:

As requested by the applicant. For details refer to next page(s).

Test Conclusion

- 1) The results of the test items shown on the report comply with the required limits of GB 4806.7-2016 National food safety standard Plastic materials and products for food contact.
- 2) The results of the test items shown on the report comply with the required limits of GB 4806.7-2023 National food safety standard Plastic materials and products for food contact.



Hill Zheng
Technical Manager
Sep. 18, 2024

No. R338851358

Centre Testing International Group Co., Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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Executive Summary:

TEST REQUEST

CONCLUSION

1)	GB 4806.7-2016 National food safety standard Plastic materials and products for food contact	
-	Specific migration of antimony	PASS
-	Specific migration of Terephthalic acid (Expressed as Terephthalic acid)	PASS
-	Specific migration of 1,2-Ethylene glycol, Diethylene glycol (Expressed as 1,2-Ethylene glycol)	PASS
2)	GB 4806.7-2023 National food safety standard Plastic materials and products for food contact	
-	Sensory Requirements	PASS
-	Overall migration	PASS
-	Potassium permanganate wastage	PASS
-	Heavy metal(as Pb)	PASS

PASS (FAIL) means that the results shown on the report (do not) comply with the required limits.

***** For further details, please refer to the following page(s) *****

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1) **GB 4806.7-2016 National food safety standard Plastic materials and products for food contact**▼ **Specific migration of antimony**

Test Method: GB 31604.41-2016 The fourth method

Food Simulant(s): 10% ethanol; Test Condition: 60°C, 10d;

Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L

Test Item(s)	Result	MDL	Limit	Unit
	001			
Antimony (Sb)	N.D.	0.01	≤0.04	mg/kg

Food Simulant(s): Iso-octane(Vegetable oil substitute); Test Condition: 60°C, 2d;

Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L;

Reduction Factor: 1

Test Item(s)	Result	MDL	Limit	Unit
	001			
Antimony (Sb)	N.D.	0.01	≤0.04	mg/kg

▼ **Specific migration of Terephthalic acid (Expressed as Terephthalic acid)**

Test Method: GB 31604.21-2016

Food Simulant(s): Vegetable oil(Rectified olive oil); Test Condition: 60°C, 10d;

Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L;

Reduction Factor: 1

Test Item(s)	Result	MDL	Limit	Unit
	001			
Terephthalic acid	N.D.	0.2	≤7.5	mg/kg

Food Simulant(s): 10% ethanol; Test Condition: 60°C, 10d;

Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L

Test Item(s)	Result	MDL	Limit	Unit
	001			
Terephthalic acid	N.D.	0.2	≤7.5	mg/kg

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▼ Specific migration of 1,2-Ethylene glycol, Diethylene glycol (Expressed as 1,2-Ethylene glycol)

Test Method: GB 31604.44-2016

Food Simulant(s): Vegetable oil(Rectified olive oil); Test Condition: 60℃, 10d;
Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L;
Reduction Factor: 1

Test Item(s)	Result	MDL	Limit	Unit
	001			
1,2-Ethylene glycol	N.D.	3.0	--	mg/kg
Diethylene glycol	N.D.	3.0	--	mg/kg
1,2-Ethylene glycol, Diethylene glycol (expressed as 1,2-Ethylene glycol)	N.D.	--	≤30	mg/kg

Food Simulant(s): 10% ethanol; Test Condition: 60℃, 10d;
Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L

Test Item(s)	Result	MDL	Limit	Unit
	001			
1,2-Ethylene glycol	N.D.	3.0	--	mg/kg
Diethylene glycol	N.D.	3.0	--	mg/kg
1,2-Ethylene glycol, Diethylene glycol (expressed as 1,2-Ethylene glycol)	N.D.	--	≤30	mg/kg

2) GB 4806.7-2023 National food safety standard Plastic materials and products for food contact

▼ Sensory Requirements

Test Method: GB 4806.7-2023

Test Item(s)	Result	MDL	Requirement	Unit
	001			
Sense	Normal color and luster, no foreign smell, no impurity	--	Normal color and luster, no foreign smell, no impurity	--
Immersion solution	The immersion solution that got from the migration test had no sensory deterioration such as turbidity, sedimentation or odor	--	The immersion solution that got from the migration test had no sensory deterioration such as turbidity, sedimentation or odor	--

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▼ **Overall migration**

Test Method: GB 31604.8-2021

Food Simulant(s): 10% ethanol; Test Condition: 40°C, 10d;

Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L

Test Item(s)	Result	MDL	Limit	Unit
	001			
Overall migration	N.D.	3.0	≤10	mg/dm ²

Food Simulant(s): Iso-octane(Vegetable oil substitute); Test Condition: 20°C, 2d**;

Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L;

Reduction Factor: 1

Test Item(s)	Result	MDL	Limit	Unit
	001			
Overall migration	N.D.	3.0	≤10	mg/dm ²

▼ **Potassium permanganate wastage**

Test Method: GB 31604.2-2016

Food Simulant(s): Water; Test Condition: 60°C, 2h;

Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L

Test Item(s)	Result	MDL	Limit	Unit
	001			
Potassium permanganate wastage	2.2	1.0	≤10	mg/kg

▼ **Heavy metal(as Pb)**

Test Method: GB 31604.9-2016 The first method

Food Simulant(s): 4% acetic acid; Test Condition: 60°C, 2h;

Immersion Method: Total immersion method; Migration times: 1; Area-Volume Ratio(S/V): 6.0 dm²/L

Test Item(s)	Result	MDL	Limit	Unit
	001			
Lead (Pb)	<1	--	≤1	mg/kg

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Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The result(s) of the test item "Immersion solution" is(are) based on the condition(s) of all immersion solution used during immersion test(s) in this report.
- ** = With reference to GB/T 23296.1-2009 for selection of test condition

Sample/Part Description

No.	CTI Sample ID	Description
1	001	White plastic

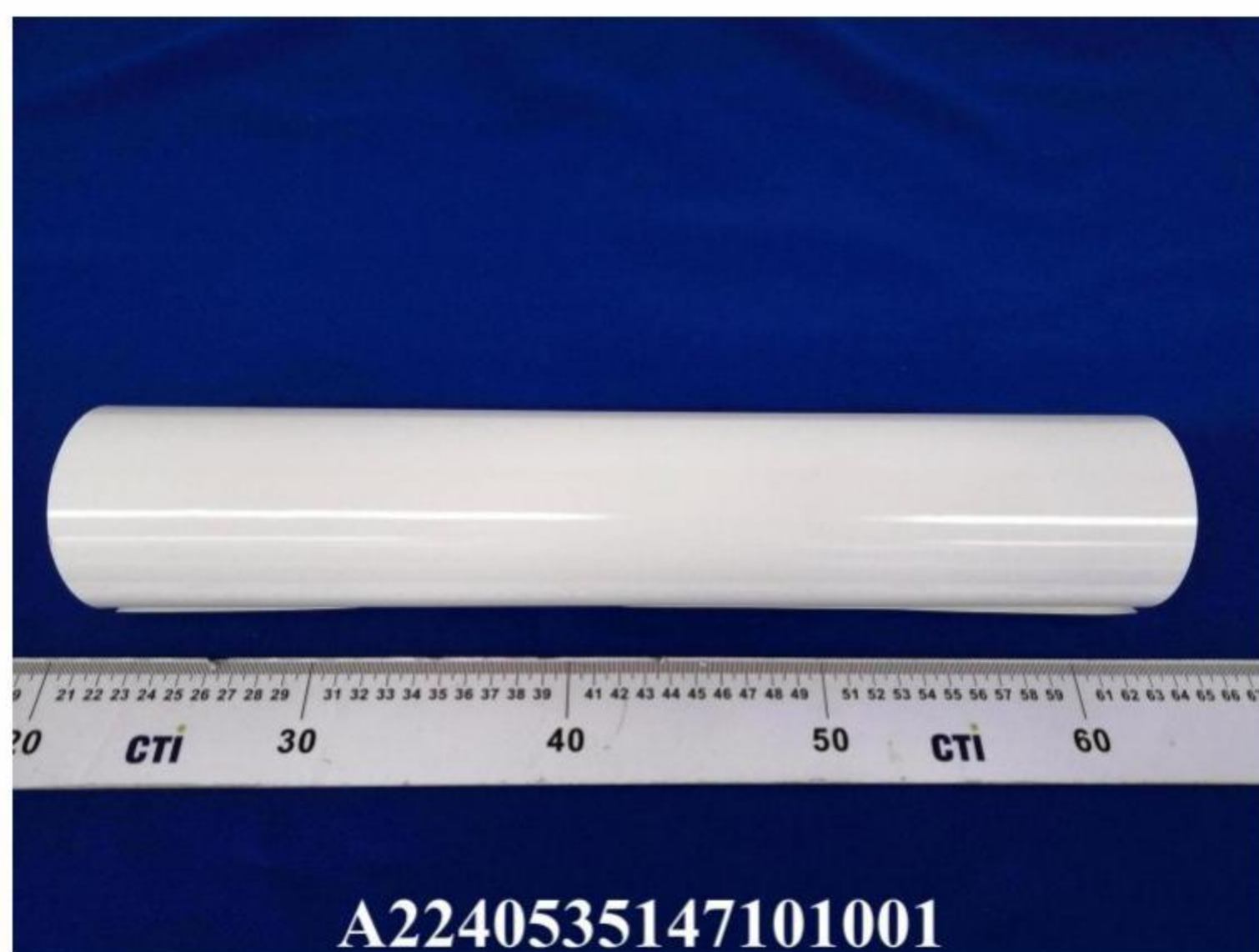
CTI 华测检测

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Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
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*** End of Report ***