



## Test Report

No. VNHL2505013148EE

Date: May 22, 2025

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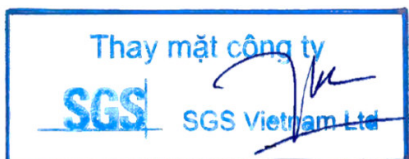
### HYOSUNG VINA CHEMICALS

LOT 01CN- 08CN, CAI MEP INDUSTRIAL ZONE, TAN PHUOC WARD, PHU MY TOWN, BA RIA- VUNG TAU PROVINCE, VIETNAM.

The following sample(s) was/were submitted and identified by the client as:

SGS Job No. : VNHL2505013148EE  
Sample Description : GRADE NAME: J446MH - HS CODE: 3902.30  
Characteristic : POLYPROPYLENE BLOCK COPOLYMER  
Color : OPAQUE COLOUR  
Sample Receiving Date : MAY 02, 2025  
Final confirmed Date : MAY 02, 2025  
Testing Period : MAY 02, 2025 TO MAY 22, 2025  
Test Requested : SELECTED TEST(S) AS REQUESTED BY THE CLIENT.  
Test method(s) : PLEASE REFER TO NEXT PAGE(S).  
Test result(s) : PLEASE REFER TO NEXT PAGE(S).  
Result Summary : PLEASE REFER TO NEXT PAGE(S).

Signed for and on behalf of  
SGS Vietnam LTD



**Ton Thien Thuy Hang**  
Connectivity SBU Manager



TYMDNH65

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Test Requested	Conclusion
<b>1. Article 3 of European Regulation No. 1935/2004</b>	--
a) Sensory Examination – Odour and Taste Test	PASS
<b>2. Commission Regulation (EU) No 10/2011</b>	--
a) Plastic – Overall Migration	PASS
b) Plastic – Specific Migration of Heavy Metals	PASS

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### Test results:

#### Sample Description:

Component No.	Description	Material	Color
1	WHITE PLASTIC (GRADE NAME:J446MH - HS CODE: 3902.30)	PLASTIC	WHITE

#### 1. Article 3 of European Regulation No. 1935/2004

##### a) Sensory Examination – Odour and Taste Test

Method: With reference to DIN 10955: 2024-01

Simulant Used	Test Item	Test Condition	Result	Maximum Permissible Limit
			1	
Water	Sensorial examination odour	10 days at 40 °C	0	2.5
	Sensorial examination taste		0	2.5
Comment			PASS	--

Note: 1. Intensity scale (rounded at 0.5):

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

2. No of panelist: 10

3. Permissible Limit is according to DIN 10955: 2024-01

Remark: These test(s) was / were performed by SGS Vietnam's Chemical lab.

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### 2. Commission Regulation (EU) No 10/2011

#### a) Plastic – Overall Migration

Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-3:2022

Simulant Used	Test Condition	Result (mg/dm <sup>2</sup> )	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
		1		
3% Acetic Acid	10 days at 40 °C	ND	3.0	10
95% Ethanol	10 days at 40 °C	ND	3.0	10
Isooctane	2 days at 20 °C	5.3	3.0	10
<b>Comment</b>	--	<b>PASS</b>	--	--

Note:

1. mg/dm<sup>2</sup> = milligram per square decimeter
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

1. Analytical tolerance of evaporable simulants is 2mg/dm<sup>2</sup>
2. Test condition & simulant were specified by client.
3. These test(s) was / were performed by SGS Vietnam's Chemical lab.

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### b) Plastic – Specific Migration of Heavy Metals

Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-MS.

Simulant Used: 3% acetic acid

Test Condition: 40°C for 10 days

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Aluminium	ND	0.1	1
Antimony	ND	0.01	0.04
Arsenic	ND	0.01	ND
Barium	ND	0.25	1
Cadmium	ND	0.002	ND
Chromium	ND	0.01	ND
Cobalt	ND	0.01	0.05
Copper	ND	0.25	5
Iron	ND	5	48
Lead	ND	0.01	ND
Lithium	ND	0.1	0.6
Manganese	ND	0.1	0.6
Mercury	ND	0.01	ND
Nickel	ND	0.01	0.02
Zinc	ND	0.5	5
Europium	ND	0.025	0.05
Gadolinium	ND	0.025	
Lanthanum	ND	0.025	
Terbium	ND	0.025	
Comment	PASS	--	--

#### Note:

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

#### Remark:

1. Test condition & simulant were specified by client.
2. The ratio of surface area to volume is 6 dm<sup>2</sup> per 1 kg of foodstuff in contact with
3. The volume of simulant used is 0.17 L
4. These test(s) was / were performed by SGS Vietnam's Chemical lab.

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**PHOTO OF SUBMITTED SAMPLE FOR TESTING**



REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY

**\*\*\*End of Report\*\*\***

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