



Test Report

No. F690101/LF-CTSAYAI25-00453

Issued Date: 2026. 01. 13

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LOTTE CHEMICAL CORPORATION

115 Gajeongbuk-ro
Yuseong-gu Daejeon
Korea



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

SGS File No.	: AYA125-00453
Sample Description	: PET High Clear, ACL66
Style no./Part no.	: -
Materials	: -
Received Date	: 2025. 12. 17
Test Period	: 2025. 12. 17 to 2026. 01. 13
Test Method	: For further details, please refer to following page (s)
Test Results	: For further details, please refer to following page (s)
Test Requested	: Please refer to the result summary. Test Parameter(s) was/were selected by client.

This test report is limited to the samples and sample names provided by the client and does not guarantee the quality of all the client's products. It shall not be used for public relation, advertisement, lawsuit and shall not be used by excepts from it. This test report can be checked through the <http://rohs.kr.sgs.com/checkreport/main>. This test report is not related to KS Q ISO/IEC 17025 and Korea Laboratory Accreditation Scheme.

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CQP-7081-F17 (03)

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Result Summary :

Test Requested	Conclusion
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments, European Commission Regulation (EU) No 10/2011 with Amendments and BfR Recommendations.	-
Overall migration	PASS
Specific migration of Heavy Metals	PASS
Specific Migration of Ethylene Glycol and Diethyleneglycol	PASS
Specific Migration of Terephthalic Acid	PASS
Specific Migration of Isophthalic acid	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments.	-
Sensorial examination odour and taste test	PASS

SGS Korea Co., Ltd.

Monet Jeong

Monet Jeong / Technical Manager

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Results :

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments, European Commission Regulation (EU) No 10/2011 with Amendments and BfR Recommendations.

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 1186-1:2002 for selection of test methods (1st migration);
EN 1186-3:2022 Test methods for overall migration in evaporable simulants

Simulant Used	Test Condition	Result (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
3 % Acetic Acid (W/V)	40 °C for 10 days	ND	3	10
95 % Ethanol	40 °C for 10 days	ND	3	10
Isooctane	20 °C for 2 days	ND	3	10
Comment	--	PASS	--	--

Sample Description: Transparent plastic sheet(PET High Clear, ACL66)

Note:

- (1) mg/dm² = milligram per square decimeter
- (2) °C = degree Celsius
- (3) ND = Not Detected (Lower than reporting limit)
- (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 2 mg/dm²
- (2) Analytical tolerance of olive oil simulant is 3 mg/dm²
- (3) The ratio of surface area to volume is 10 dm²/kg of foodstuff in contact with.
- (4) Test condition & simulant were specified by client.
- (5) For single use articles, the compliance is based on 1st migration result with measurement uncertainty according to (EU) 2025/351.

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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments, European Commission Regulation (EU) No 10/2011 with Amendments and BfR Recommendations.

Specific migration of Heavy metals

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

Simulant Used: 3 % acetic acid (w/v)

Test Condition: 60 °C for 10 days (1st migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Aluminium	ND	0.2	1
Antimony	ND	0.01	0.04
Arsenic	ND	0.01	ND
Barium	ND	0.2	1
Cadmium	ND	0.002	ND
Chromium	ND	0.01	ND
Cobalt	ND	0.01	0.05
Copper	ND	1	5
Iron	ND	9.6	48
Lead	ND	0.01	ND
Lithium	ND	0.12	0.6
Manganese	ND	0.12	0.6
Mercury	ND	0.01	ND
Nickel	ND	0.01	0.02
Zinc	ND	1	5
Europium	ND	0.01	0.05
Gadolinium	ND	0.01	
Lanthanum	ND	0.01	
Terbium	ND	0.01	
Comment	PASS	--	--

Sample Description: Transparent plastic sheet(PET High Clear, ACL66)

Note:

(1) mg/kg = milligram per kilogram of foodstuff in contact with.

(2) °C = degree Celsius

(3) ND = Not Detected (Lower than reporting limit)

(4) Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

(1) The ratio of surface area to volume is 6 dm²/kg of foodstuff in contact with.

(2) Test condition & simulant were specified by client.

(3) For single use articles, the compliance is based on 1st migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on 1st migration result if it is detected without the inclusion of measurement uncertainty.

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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments, European Commission Regulation (EU) No 10/2011 with Amendments and BfR Recommendations.

Specific migration of Ethyleneglycol and Diethyleneglycol

Method: With reference to EN 13130-7. Analysis was performed by GC/MS.

Simulant Used: 95% Ethanol

Test Condition: 60 °C for 10 days (1st migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific migration of Ethyleneglycol	ND	10	30*
Specific migration of Diethyleneglycol	ND	10	
Comment	PASS	--	--

Sample description : Transparent plastic sheet(PET High Clear, ACL66)

Note:

- (1) mg/kg = milligram per kilogram of foodstuff in contact with
- (2) °C = degree Celsius
- (3) ND = Not Detected (Lower than reporting limit)
- (4) * = max.Σ (ethyleneglycol + diethyleneglycol)
- (5) Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Remark:

- (1) The ratio of surface area to volume is 6 dm² per 1 kg of foodstuff in contact with.
- (2) Test condition & simulant were specified by client.

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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments, European Commission Regulation (EU) No 10/2011 with Amendments and BfR Recommendations.

Specific migration of Terephthalic acid

Method: With reference to DIN EN 13130-2. Analysis was performed by HPLC.

Test Condition: 60 °C for 10 days (1st migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific migration of Terephthalic acid (3% Acetic Acid(W/V) Aqueous Solution)	ND	2	7.5
Specific migration of Terephthalic acid (95% Ethanol)	ND	2	7.5
Comment	PASS	--	--

Sample description :

Transparent plastic sheet(PET High Clear, ACL66)

Note:

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

Remark:

- (1) The ratio of surface area to volume is 6 dm² per 1 kg of foodstuff in contact with
- (2) Test condition & simulant were specified by client.
- (3) For single use articles, the compliance is based on 1st migration result with measurement uncertainty according to (EU) 2025/351.

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Specific migration of Isophthalic acid

Method: With reference to DIN EN 13130-2. Analysis was performed by HPLC.

Test Condition: 60 °C for 10 days (1st migration)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific migration of Isophthalic acid (3% Acetic Acid(W/V) Aqueous Solution)	ND	2	5
Specific migration of Isophthalic acid (95% Ethanol)	ND	2	5
Comment	PASS	--	--

Sample description : Transparent plastic sheet(PET High Clear, ACL66)

Note:

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

Remark:

- (1) The ratio of surface area to volume is 6 dm² per 1 kg of foodstuff in contact with
- (3) Test condition & simulatant were specified by client.
- (3) For single use articles, the compliance is based on 1st migration result with measurement uncertainty according to (EU) 2025/351.

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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments

Sensorial examination odour and taste test

Method: With reference to DIN10955: 2024-01

Test condition: 40 °C for 10 days

No. of panelist: 6

The ratio of surface area to volume is 10 dm²/kg of foodstuff in contact with.

Test Simulant	Test Item	Result	Maximum Permissible Limit
Water	Sensorial examination odour	1.0	2.5
	Sensorial examination taste	0.5	2.5
Comment	--	PASS	--

Sample Description: Transparent plastic sheet(PET High Clear, ACL66)

Note:

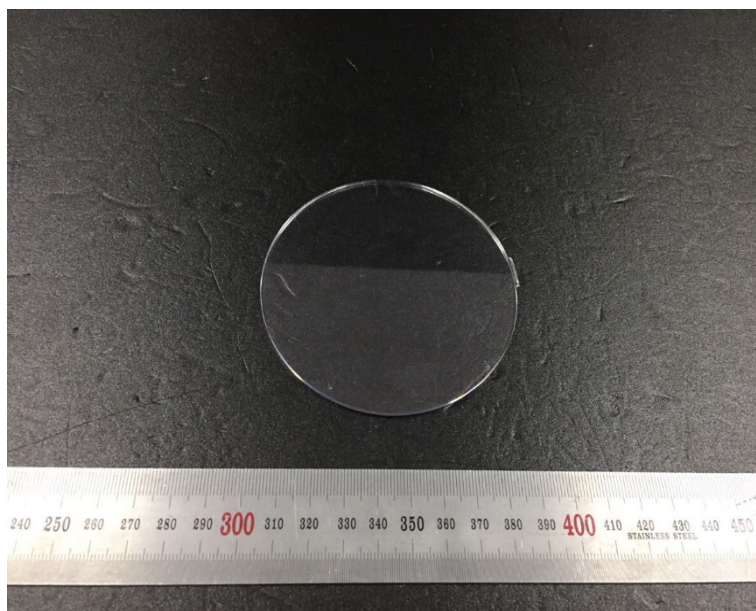
(1) Intensity scale (rounded at 0.5):

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

(2) Permissible Limit is according to DIN 10955: 2024-01 and German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments.

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Picture of Sample as Received :



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*** End of Report ***

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