

CERTIFICATE OF ANALYSIS No. 20-0000/16

In pursuance of an order received from JV «Uz-Kor Gas Chemical» LLC, with address: 230100, 121 Turtkul Guzari str., Nukus Republic of Karakalpakstan, requesting us to carry out the instructions summarized as under:

SCOPE OF INSPECTION

- Dispatch of provided samples to the chemical laboratory in SGS Korea for testing of following parameters as per standard EU No.10/2011:
- Sensory test (Water);
- Overall migration (3% HOACs, 95% EtOH, Isooctane);
- S.M.1 (3% HOACs); 7 metals;
 Remark: EU regulation 1935/2004/EC 10/2011 EC, Four PE, Two Homo-PP, Two Random PP 400 C*10 days (OM, SM);

of a consignment designated as:

PRODUCT NAME : PP ITEM No. : FC-550

CLIENT REFERENCE DATA: JV «Uz-Kor Gas Chemical» LLC Manufacturer.

WE REPORT AS FOLLOWS:

On the 05-14th of February 2016, FE "SGS Tashkent Ltd." has been provided with the samples of polyethylene & polypropylene ex representative of JV «Uz-Kor Gas Chemical» LLC.

On the 16th of February 2016 the samples were sent to the laboratory to SGS Korea Co. for the testing and the findings reported in Test Report No. F690101/LF-CTSAYAA16-12801 dd.16.03.2016 are as follows.

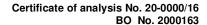
Test Period : 25.02-16.03.2016.

Test Result(s): For further details, please refer to following page (s)

Result Summary:

Test Requested	Commission
1. Commission Regulation (EU) No 10/2011 and	
hence Article 3 of European Regulation No.	-
1935/2004.	
a) Plastic – Overall Migration	PASS
b) Plastic – Specific Migration of Heavy Metals	PASS
2. German Food, Articles of Daily Use and Feed	
Code of September 1, 2005(LFGB), Section 31	-
a) Sensorial examination odour and taste test	PASS

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Sample No. : **AYAA16-12801.001**

Sample Description : PP

Item / Part No. : FC-550

Material : N/A

Test result(s):

1. European Commission Regulation (EU) No 10/2011

a) Plastic - Overall migration

Method: With reference to EN 1186-1:2002 for selection of conditions and test methods:

EN 1186-3:2002 aqueous food simulants by total immersion method;

EN 1186-14:2002 Substitute test

Simulant Used	Test Condition	Result (mg/dm²)	Detection Limit (mg/dm²)	Permissible (mg/dm²)
3% Acetic Acid(W/V) Aqueous Solution	40 ℃ for 10 days	N.D	3.0	10
95% Ethanol(V/V) Aqueous Solution	40 $^{\circ}$ for 10 days	N.D	3.0	10
Isooctane	20 ℃ for 2 days	4.20	3.0	10
Comment		PASS		

Note: 1. mg/dm² = milligram per square decimeter

- 2. °C = degree Celsius
- 3. N.D = Not Detected
 - 4.Permissible Limit is according to Commission Regulation (EU) No 10/2011 of January 2011 with amendments.

Remark:

- 1. Analytical tolerance of aqueous simulants is 1mg/dm² or 6mg/kg
- 2. Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg
- 3. Test condition & simulant were specified by client.

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Sample No. : **AYAA16-12801.001**

Sample Description : PP

Item / Part No. : FC-550

Material : N/A

b) Plastic - 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) in aqueous solution

Test Condition: 40 ℃ for 10 days

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible (mg/kg)
Specific Migration of Barium	N.D	0.3	1
Specific Migration of Cobalt	N.D	0.01	0.05
Specific Migration of Copper	N.D	0.3	5
Specific Migration of Iron	N.D	0.3	48
Specific Migration of Lithium	N.D	0.5	0.6
Specific Migration of Manganese	N.D	0.3	0.6
Specific Migration of Zinc	N.D	0.5	25
Comment	PASS		

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3.N.D -= Not Detected.

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

Remark: 1. Test condition & simulant were specified by client

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Sample No. : **AYAA16-12801.001**

Sample Description : PP

Item / Part No. : FC-550

Material : N/A

2. In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) with its amendment, Section 31, and article 3 of EU Regulation (EC) No 1935/2004

a) Sensorial examination of odour and taste

Test Method: With reference to DIN10955: 2004

Migration condition: 40 °C for 10 days

Test Simulant: Water

The number of panelists: 6

Test Results :

Test Simulant	Test Item	Result	Maximum Permissible Limit
Water	Sensorial examination odour	0.5	2.5
	Sensorial examination taste	1.0	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. Permissible Limit is according to LFGB with its amendment, Section 30 and 31, and Regulation (EC) No 1935/2004 of The European Parliament and of the Council of 27 October 2004.

SGS Tashkent Ltd.



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Signed and dated in Tashkent 00th of March 2016

For and on behalf of SGS Tashkent Ltd. FE

SGS Tashkent Ltd.