



HELLENIC REPUBLIC
MINISTRY OF FINANCE
GENERAL SECRETARIAT FOR PUBLIC REVENUE
D.G. of the GENERAL CHEMICAL STATE LABORATORY
B CHEMICAL SERVICE OF ATHENS
DEPARTMENT B

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Date: 24-07-2015
Our ref.. 30/013/000/4520/10-06-2015

GCSL Sample Nr..013/000/15009/2015

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TO: KARAVATSIS PANAGIOTIS S.A. – TIGER PLAST S.A.
2KM GIANITSA-EDESSA
23820 24806
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SAMPLE TEST REPORT

Sending Authority
Incoming reference Nr/ Date
Sampling Authority
Type of Material
Date of arrival
Date of analysis

KARAVATSIS PANAGIOTIS S.A. – TIGER PLAST S.A.
Application / 09-06-2015
The material was sampled and delivered by the applicant
Plastic for tank
10-06-2015

From: 24-06-2015

To: 24-07-2015

SAMPLE TEST RESULTS

Tested Parameters	Test Method	Result	Legal limit	Analyst's name
Polymer identification	Polymer identification using Spectroscopy (FT-IR Spectroscopy)	Polyethylene)		Timokleia Togkalidou (B Chemical Service of Athens)
Specific migration estimation of the contained additives	Specific migration semi-quantitative assessment of chemical substances from plastics with GC-FID (EM4)	$\lambda < 1$ Specific migration is considered negligible		
Overall migration into 3% acetic acid (mg/dm ²)	Gravimetric determination of overall migration from plastics into aqueous simulants by standard cell (OM1)	2 (Conditions: 10days at 40°C)	10	
Overall migration into 50% ethanol (mg/dm ²)	Gravimetric determination of overall migration from plastics into aqueous simulants by standard cell (OM1)	1 (Conditions: 10 days at 40°C)	10	
Overall migration into 96% ethanol (mg/dm ²)	Gravimetric determination of overall migration from plastics into alternative of fatty food simulants by standard cell (OM7)	1 (Conditions: 10days at 40°C)	10	
Overall migration into isooctane (mg/dm ²)	Gravimetric determination of overall migration from plastics into alternative of fatty food simulants by standard cell (OM7)	2 (Conditions: 2 days at 20°C)	10	

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GENERAL CHEMICAL STATE LABORATORY

FORM TITLE: Test Report

FORM. ENT 00 00 5.10 05/Edition 4/ D34 Sec D / 1-1-2011



Tested Parameters	Test Method	Result	Legal limit	Analyst's name
octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (mg/Kg) ⁽¹⁾	Specific migration of starting monomers and additives by gas chromatography (GC-FID)	0.75 <i>(Simulant: isooctane, Conditions: 2 days at 20°C)</i>	6	Timokleia Togkalidou (B' Chemical Service of Athens)
poly[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl]-[(2,2,6,6-tetramethyl-4-piperidyl)-imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino] (mg/Kg) ⁽²⁾	Specific migration of starting monomers and additives by gas chromatography (GC-FID)	1.35 <i>(Semiquantitative assessment, Simulant: isooctane, Conditions: 2 days at 20°C)</i>	3	
octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (mg/Kg) ⁽¹⁾	Specific migration assessment by using migration mathematical modeling – SML advanced 4.4. ⁽³⁾	0,7 <i>(Simulant: aqueous food simulants, Conditions: 10 days at 40°C)</i>	6	
poly[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl]-[(2,2,6,6-tetramethyl-4-piperidyl)-imino]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino] (mg/Kg) ⁽²⁾	Specific migration assessment by using migration mathematical modeling – SML advanced 4.4. ⁽³⁾	0,9 <i>(Simulant: aqueous food simulants, Conditions: 10 days at 40°C)</i>	3	

Labeling Check:

OPINION (FINAL ASSESSMENT): The sample analyzed “plastic for tank” conforms to the European Regulations (EC) No. 1935/2004 and (EU) No. 10/2011 as amended and enforced, regarding the tested analytical parameters, chosen according to its intended use ⁽⁴⁾ only

Notes:

⁽¹⁾ Substance Number FCM: 68320

⁽²⁾ Substance Number FCM:81200

⁽³⁾ The reported values at Declaration of Compliance by Versalis Company are used as initial concentrations of the additives.

⁽⁴⁾ The intended use, according to the applicant declaration, is for wine, oil, and all food types, except water

⁽⁵⁾ The rest of the sample will be destroyed by the laboratory if not requested by the client within one month.

**ATTENTION
 THE CERTIFICATION IS VALID
 ONLY FOR TANKS WITH MARK
 TIGER-PLAST sa**

The Deputy Head of the Chemical
 Service
 (p.p.)



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