

Certificate of Analysis No. : 2118807

Customer

KARAVATSIS PANAYIOTIS SA - TIGER PLAST SA
2nd km GIANNITSA - EDESSA
58100 GIANNITSA

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

Attn. Mr. KARAVATSIS

Date of issue: 20/8/2021

Sample information

Sample kind : Material intended to come into contact with food (plastic) for repeated use
Sample identification : According to customer's statement: polyethylene tank
Received on : 7/7/2021 9:35:00 a.m.
Packaging : 25 pieces
Seals : None
Temperature : Ambient
Condition on receipt : Normal

Sampling information

Sampling responsible : Customer
Date : ---
Location : ---
Point : ---
Method : ---

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Analysis results

Date of analysis: 9/7/2021 – 19/8/2021

The following results apply to the sample as received.

PARAMETER	METHOD	UNITS	RESULT	LIMITS
Overall migration (simulant D2:vegetable oil)	O.626 based on EN 1186-2:2002	Contact conditions:	10 days @ 40°C	M1
	1 st test	mg / dm ²	Not detected	LOD=1 -
	2 nd test	mg / dm ²	Not detected	LOD=1 -
	3 rd test	mg / dm ²	Not detected	LOD=1 -
	4 th test	mg / dm ²	Not detected	LOD=1 -
	Average	mg / dm ²	Not detected	LOD=1 -
Overall migration (simulant D2:vegetable oil)	O.626 based on EN 1186-2:2002	Contact conditions:	20 days @ 40°C	M2
	1 st test	mg / dm ²	Not detected	LOD=1 -
	2 nd test	mg / dm ²	Not detected	LOD=1 -
	3 rd test	mg / dm ²	Not detected	LOD=1 -
	4 th test	mg / dm ²	Not detected	LOD=1 -
	Average	mg / dm ²	Not detected	LOD=1 (M2-M1) <M1
Overall migration (simulant D2:vegetable oil)	O.626 based on EN 1186-2:2002	Contact conditions:	30 days @ 40°C	M3
	1 st test	mg / dm ²	Not detected	LOD=1 -
	2 nd test	mg / dm ²	Not detected	LOD=1 -
	3 rd test	mg / dm ²	Not detected	LOD=1 -
	4 th test	mg / dm ²	Not detected	LOD=1 -
	Average	mg / dm ²	Not detected	LOD=1 (M3-M2): max 10 & (M3-M2)<(M2-M1)M1)

LOD: Limit of detection.

(M1)-(M2)-(M3): The 3 tests were carried out on different test specimens.

LIMITS: Regulation (EU) 10/2011 as amended and is valid, on plastic materials and articles intended to come into contact with food.

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PARAMETER	METHOD	UNITS	RESULT	LIMITS
Overall migration (simulant A:ethanol 10%)	EN 1186-3:2002	Contact conditions:	10 days @ 40°C	A1
	1 st test	mg / dm ²	Not detected	LOD=0,8 -
	2 nd test	mg / dm ²	Not detected	LOD=0,8 -
	3 rd test	mg / dm ²	Not detected	LOD=0,8 -
	Average	mg / dm ²	Not detected	LOD=0,8 -
Overall migration (simulant A:ethanol 10%)	EN 1186-3:2002	Contact conditions:	10 days @ 40°C	A2
	1 st test	mg / dm ²	Not detected	LOD=0,8 -
	2 nd test	mg / dm ²	Not detected	LOD=0,8 -
	3 rd test	mg / dm ²	Not detected	LOD=0,8 -
	Average	mg / dm ²	Not detected	LOD=0,8 A2<A1
Overall migration (simulant A:ethanol 10%)	EN 1186-3:2002	Contact conditions:	10 days @ 40°C	A3
	1 st test	mg / dm ²	Not detected	LOD=0,8 -
	2 nd test	mg / dm ²	Not detected	LOD=0,8 -
	3 rd test	mg / dm ²	Not detected	LOD=0,8 -
	Average	mg / dm ²	Not detected	LOD=0,8 A3:max 10 & A3<A2
Overall migration (simulant B:acetic acid 3% w/v)	EN 1186-3:2002	Contact conditions:	10 days @ 40°C	B1
	1 st test	mg / dm ²	Not detected	LOD=0,8 -
	2 nd test	mg / dm ²	Not detected	LOD=0,8 -
	3 rd test	mg / dm ²	Not detected	LOD=0,8 -
	Average	mg / dm ²	Not detected	LOD=0,8 -
Overall migration (simulant B:acetic acid 3% w/v)	EN 1186-3:2002	Contact conditions:	10 days @ 40°C	B2
	1 st test	mg / dm ²	Not detected	LOD=0,8 -
	2 nd test	mg / dm ²	Not detected	LOD=0,8 -
	3 rd test	mg / dm ²	Not detected	LOD=0,8 -
	Average	mg / dm ²	Not detected	LOD=0,8 B2<B1
Overall migration (simulant B:acetic acid 3% w/v)	EN 1186-3:2002	Contact conditions:	10 days @ 40°C	B3
	1 st test	mg / dm ²	Not detected	LOD=0,8 -
	2 nd test	mg / dm ²	Not detected	LOD=0,8 -
	3 rd test	mg / dm ²	Not detected	LOD=0,8 -
	Average	mg / dm ²	Not detected	LOD=0,8 B3:max 10 & B3<B2

LOD: Limit of detection.

(A1)-(A2)-(A3) & (B1)-(B2)-(B3) : The 3 tests were carried out successively on the same test specimen using another portion of simulant on each occasion.

LIMITS: Regulation (EU) 10/2011 as amended and is valid, on plastic materials and articles intended to come into contact with food.

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Statement of conformity: According to the above information, the examined sample complies with the overall migration limits set by Regulation (EU) 10/2011, for repeated use (Annex V, Chap.3) and for the following types of foods and intended food contact conditions:

TYPES OF FOODS

All types of foods	Annex III, Point 4
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Intended food contact conditions (Annex V, Chap.3, Table 3)

Test number OM2:	Any long term storage at room temperature or below, including when packaged under hot-fill conditions, and/or heating up to a temperature T where $70\text{ }^{\circ}\text{C} \leq T \leq 100\text{ }^{\circ}\text{C}$ for a maximum of $t = 120/2^{((T-70)/10)}$ minutes.
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Test number OM2 also covers food contact conditions described under OM0, OM1 and OM3.

Test number OM0: Any food contact at cold or ambient temperatures and for a short duration (≤ 30 minutes).

Test number OM1: Any food contact at frozen and refrigerated conditions.

Test number OM3: Any food contact conditions that include hot-fill and/or heating up to a temperature T where $70\text{ }^{\circ}\text{C} \leq T \leq 100\text{ }^{\circ}\text{C}$ for maximum of $t = 120/2^{((T-70)/10)}$ minutes, which are not followed by long term room temperature or refrigerated storage.

For
A. TSAKALIDIS Inc.

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