

Test Certificate No.7212203616

Issued under Section 12 of the Standards Law, 1953

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Details of order:

Name of customer:	DOLAV – Plastic Products Ltd.
Address:	Kibbutz Dvir, Hanegev 8533001, Israel
Date order:	20-Mar-22

Sample Description as Declared:

Products:	PE board, see in annex I
Manufacture	DOLAV – Plastic Products Ltd., Israel
Sampled by:	Customer
Sample received in lab:	20-Mar-22
Testing time:	from: 20-Mar-22 to: 05-Apr-22
Test requested:	Selected test(s) as requested by client
Test method:	Please refer to next page(s)
Test results:	Please refer to next page(s)

This document contains 5 pages
and may use only in full.

The test results in this document
refer only to the item tested.

This document does not constitute a license
to mark the product with the standards
mark

Conclusion:

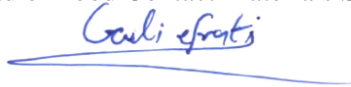
For compliance with EU Regulation 10/2011 as amended and Israeli Standard SII 5113 (2019)	
1. Overall migration according to Regulation (EU) 10/2011	Comply
2. Specific migration of primary aromatic amines (PAAs) according to Regulation (EU) 10/2011 and Regulation (EU) 1245/2020	Comply
3. Specific migration of substances according to annex II, Regulation (EU) 10/2011 and Regulation (EU) 1245/2020	Comply

*Rule of decision considering the uncertainty of the test based on the clause in the relevant standards.

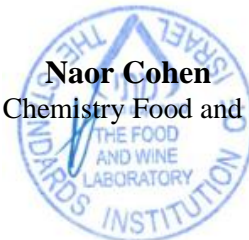
Certified by:

Gadi Efrati

Head of Food Contact Materials Section


Naor Cohen

Head of Chemistry Food and Water Branch



Date: 13/04/2022

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Description:

PE board

Aqueous, acidic and oily food for 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. (OM2).

1- Overall Migration Protocol -OM2- single use test

Selection of test conditions as specified to Regulation 10/2011 Annex III, V;

 Selection of test method: EN 1186-1. S/V = 1.5dm²/100ml.

Tested sample	Food Simulants	Test conditions	Results, mg/sq. dm	Limit, mg/sq. dm
PE board	A- Ethanol 10%	10 Days at 40°C	2.4	10
PE board	B- Acetic acid 3%	10 Days at 40°C	2.1	10
PE board	D2- Ethanol 95 %	10 Days at 40°C	<1	10
PE board	D2-Isooctane	2 Days at 20°C	<1	10

The Film was investigated for the overall migration into 95% Ethanol and Isooctane according to the EN 1186-14

2- Specific migration of Primary aromatic amines (PAAs)- according to Regulation (EU) 10/2011^(*)

Method: UNI EN 13130-1:2005 + JRC-IHCP EU RL-FCM Aromatic amines Protocol A Ed.1 2011 (LCMS)

Test conditions: Acetic acid 3% - 40°C for 10 days. ND= Not Detected

Chemical parameters	CAS Number	Limit, mg/kg	MDL, mg/kg	Results, mg/kg
Specific migration of sum of Primary aromatic amines	-	0.01	0.002	<0.01
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	<0.002	0.002	ND
2,4,5-trimethylaniline	137-17-7	<0.002	0.002	ND
2-Methoxyaniline, o-Anisidine	90-04-0	<0.002	0.002	ND
2-naphthylamine	91-59-8	<0.002	0.002	ND
3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	<0.002	0.002	ND
3,3'-dimethoxybenzidine o-dianisidine	119-90-4	<0.002	0.002	ND
3,3'-dimethylbenzidine 4,4'-bi-o-toluidine	119-93-7	<0.002	0.002	ND
4,4'-methylenedi-o-toluidine	838-88-0	<0.002	0.002	ND
4,4'-oxydianiline	101-80-4	<0.002	0.002	ND
4,4'-thiodianiline	139-65-1	<0.002	0.002	ND
4,4'-Methylenedianiline (MDA)	101-77-9	<0.002	0.002	ND
4-Aminoazobenzene	60-09-3	<0.002	0.002	ND
4-chloro-o-toluidine	95-69-2	<0.002	0.002	ND
4-chloroaniline	106-47-8	<0.002	0.002	ND
4-methoxy-m-phenylenediamine	615-05-4	<0.002	0.002	ND
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	<0.002	0.002	ND
5-nitro-o-toluidine	99-55-8	<0.002	0.002	ND
6-methoxy-m-toluidine (p-cresidine)	120-71-8	<0.002	0.002	ND
Benzidine	92-87-5	<0.002	0.002	ND
4-aminobiphenyl	92-67-1	<0.002	0.002	ND

Chemistry, Food and Water Branch, 42 Chaim Levanon St, Tel Aviv 6997701 Israel,

Tel: 972-3-6465138, Fax: 972-3-6465036, E-mail: for food: food@sii.org.il, for wine: wine@sii.org.il, for food contact materials: fcm@sii.org.il, for water: water@sii.org.il, www.sii.org.il

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<i>o</i> -aminoazotoluene,4-amino-2',3-dimethylazobenzene,4- <i>o</i> -tolylazo- <i>o</i> -toluidine	97-56-3	<0.002	0.002	ND
<i>o</i> -toluidine,2-aminotoluene	95-53-4	<0.002	0.002	ND

3- Specific migration of substances according to Regulation (EU) 10/2011 and Regulation (EU) 1245/2020

Selection of test method: EN 13130-1 and sample preparation in acetic acid 3% v/v at 40°C for 10 days.

As specified in Regulation (EU) No. 10/2011 ANNEX II. Method: ICP-MS. ND= Not Detected

Substances	SML, mg/kg	MDL, mg/kg	Results, mg/kg
Aluminum (Al)	1	0.02	ND
Antimony (Sb)	0.04	0.025	ND
Arsenic (As)	0.01	0.002	ND
Barium (Ba)	1	0.020	ND
Cadmium (Cd)	0.002	0.002	ND
Chromium (Cr) ¹	0.002	0.002	ND
Cobalt (Co)	0.05	0.002	ND
Copper (Cu)	5	0.100	ND
Zinc (Zn)	5	0.100	ND
Iron (Fe)	48	0.2	ND
Lead (Pb)	0.01	0.002	ND
Lithium (Li)	0.6	0.01	ND
manganese (Mn)	0.6	0.01	ND
Mercury (Hg)	0.002	0.002	ND
Nickel (Ni)	0.02	0.002	ND
Terbium (Tb) ²	0.05	0.005	ND
Lanthanum (La) ²			
Europium (Eu) ²			
Gadolinium (Gd) ²			

Note: ppm=mg/kg (1,000 ppm=1,000 mg/kg=0.1%); SML = Specific Migration Limit;
 ND= Not Detected (<MDL); MDL=Method Detection Limit;

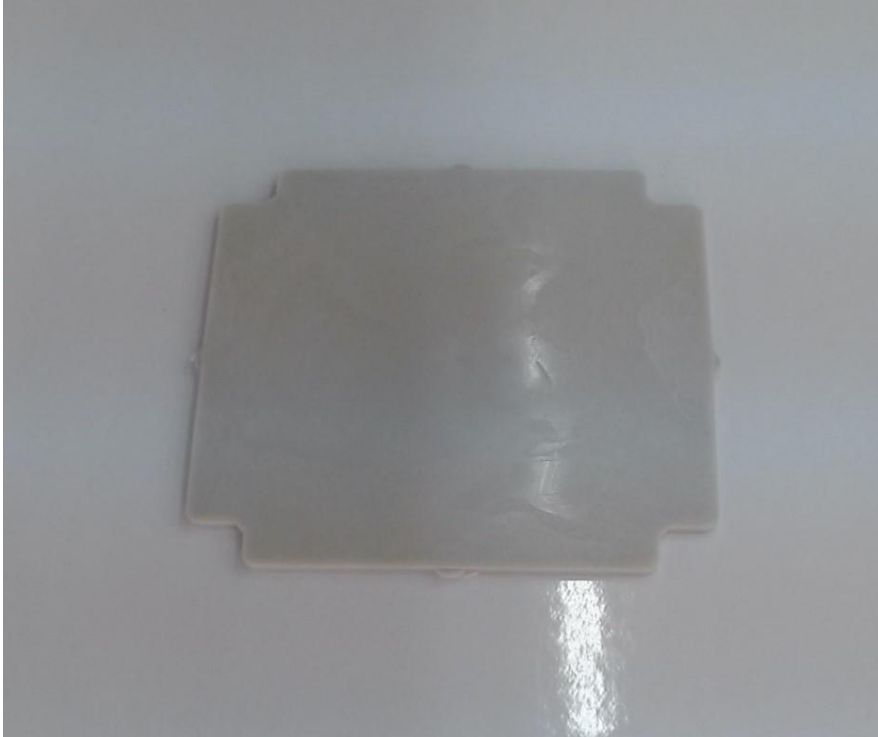
1. Less stringent limit of 3.6 mg/kg applies if pre-existing documentation demonstrates Cr (VI) is excluded.
2. Lanthanide substances can be used according to Article 6(3)(a) subject to SML is no more than 0.05 mg/kg for the sum of all lanthanide substances and the analytical evidence using a procedure demonstrating the lanthanide substance(s) used are present in dissociated ionic form in food or food simulant forms part of the documentation in Article 16.

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Annex I:

<i>Description</i>	<i>Tested item</i>
PE board	

-End of Document-