

**Test Certificate No.7312204818**

Issued under Section 12 of the Standards Law, 1953

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**Details of order:**

Name of customer:	HOFIT BY HULIOT GROUP LTD
Address:	Kibbutz Kinneret, 15118
Date order:	08-May-23

**Sample Description as Declared:**

Products:	LDPE 3505 BLACK/WHITH – see in annex I
Manufacturer:	AL-FAKHER
Sampled by:	Customer

Sample received in lab:	08-May-23
Testing time:	from: 08-May-23 to: 16-May-23
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)

**Nature of the test:**

For compliance with EU Regulation 10/2011 as amended and with the requirements of Israeli Standard SI 5113 – “Plastic materials and plastic articles in contact with food and beverages”, Jan 2019

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:**

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

**Evyatar Elmaleh**

Practical Engineer

Date: 16/05/2023

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**Description: LDPE 3505 BLACK/WHITH**
*Any long-term storage at room temperature or below and high temperature applications up to 121 °C.*
**1- Overall Migration Protocol -OM5- 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 = 1dm<sup>2</sup>/100ml

Tested sample	Food Simulants	Test conditions	Result, mg/sq. dm	Limit, mg/sq. dm
LDPE 3505 BLACK/WHITH	A- Ethanol 10%	2 hours at 100°C	<1	10
LDPE 3505 BLACK/WHITH	B- Acetic acid 3%	2 hours at 100°C	<1	10
LDPE 3505 BLACK/WHITH	D2- Ethanol 95 %	4 hours at 60°C	<1	10
LDPE 3505 BLACK/WHITH	D2- Isooctane	2 hours at 60°C	2.5	10

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

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<b>2- Specific migration of Primary aromatic amines (PAAs)- according to Regulation (EU) 10/2011<sup>(*)</sup></b>				
Method: UNI EN 13130-1:2005 + JRC-IHCP EU RL-FCM Aromatic amines Protocol A Ed.1 2011 (LCMS)				
Test conditions: Acetic acid 3% - 100°C for 2 hours.				
<b>Chemical parameters</b>	<b>CAS Number</b>	<b>Limit, mg/kg</b>	<b>MDL, mg/kg</b>	<b>Results, mg/kg</b>
<i>Specific migration of sum of Primary aromatic amines</i>	-	0.01	0.002	<0.01
<i>2,2'-dichloro-4,4'-methylenedianiline (MOCA)</i>	101-14-4	<0.002	0.002	ND
<i>2,4,5-trimethylaniline</i>	137-17-7	<0.002	0.002	ND
<i>2-Methoxyaniline, o-Anisidine</i>	90-04-0	<0.002	0.002	ND
<i>2-naphthylamine</i>	91-59-8	<0.002	0.002	ND
<i>3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine</i>	91-94-1	<0.002	0.002	ND
<i>3,3'-dimethoxybenzidine o-dianisidine</i>	119-90-4	<0.002	0.002	ND
<i>3,3'-dimethylbenzidine 4,4'-bi-o-toluidine</i>	119-93-7	<0.002	0.002	ND
<i>4,4'-methylenedi-o-toluidine</i>	838-88-0	<0.002	0.002	ND
<i>4,4'-oxydianiline</i>	101-80-4	<0.002	0.002	ND
<i>4,4'-thiodianiline</i>	139-65-1	<0.002	0.002	ND
<i>4,4'-Methylenedianiline (MDA)</i>	101-77-9	<0.002	0.002	ND
<i>4-Aminoazobenzene</i>	60-09-3	<0.002	0.002	ND
<i>4-chloro-o-toluidine</i>	95-69-2	<0.002	0.002	ND
<i>4-chloroaniline</i>	106-47-8	<0.002	0.002	ND
<i>4-methoxy-m-phenylenediamine</i>	615-05-4	<0.002	0.002	ND
<i>4-methyl-m-phenylenediamine (toluene-2,4-diamine)</i>	95-80-7	<0.002	0.002	ND
<i>5-nitro-o-toluidine</i>	99-55-8	<0.002	0.002	ND
<i>6-methoxy-m-toluidine (p-cresidine)</i>	120-71-8	<0.002	0.002	ND
<i>Benzidine</i>	92-87-5	<0.002	0.002	ND
<i>4-aminobiphenyl</i>	92-67-1	<0.002	0.002	ND
<i>o-aminoazotoluene,4-amino-2',3-dimethylazobenzene,4-o-tolylazo-o-toluidine</i>	97-56-3	<0.002	0.002	ND
<i>o-toluidine,2-aminotoluene</i>	95-53-4	<0.002	0.002	ND

ND= Not Detected (<MDL); MDL=Method Detection Limit;

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**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 100°C for 2 hours. As specified in Regulation (EU) No. 10/2011 ANNEX II. Method: ICP-MS

<i>Substances</i>	<i>SML, mg/kg</i>	<i>MDL, mg/kg</i>	<i>Results, mg/kg</i>
<i>Aluminum (Al)</i>	<i>1</i>	<i>0.002</i>	<i>ND</i>
<i>Antimony (Sb)</i>	<i>0.04</i>	<i>0.0025</i>	<i>ND</i>
<i>Arsenic (As)</i>	<i>0.01</i>	<i>0.002</i>	<i>ND</i>
<i>Barium (Ba)</i>	<i>1</i>	<i>0.0020</i>	<i>ND</i>
<i>Cadmium (Cd)</i>	<i>0.002</i>	<i>0.002</i>	<i>ND</i>
<i>Chromium (Cr)<sup>1</sup></i>	<i>0.002</i>	<i>0.002</i>	<i>ND</i>
<i>Cobalt (Co)</i>	<i>0.05</i>	<i>0.002</i>	<i>ND</i>
<i>Copper (Cu)</i>	<i>5</i>	<i>0.100</i>	<i>ND</i>
<i>Zinc (Zn)</i>	<i>5</i>	<i>0.100</i>	<i>ND</i>
<i>Iron (Fe)</i>	<i>48</i>	<i>0.2</i>	<i>ND</i>
<i>Lead (Pb)</i>	<i>0.01</i>	<i>0.002</i>	<i>ND</i>
<i>Lithium (Li)</i>	<i>0.6</i>	<i>0.01</i>	<i>ND</i>
<i>manganese (Mn)</i>	<i>0.6</i>	<i>0.01</i>	<i>ND</i>
<i>Mercury (Hg)</i>	<i>0.002</i>	<i>0.002</i>	<i>ND</i>
<i>Nickel (Ni)</i>	<i>0.002</i>	<i>0.002</i>	<i>ND</i>
<i>Terbium (Tb)<sup>2</sup></i>	<i>0.05</i>	<i>0.005</i>	<i>ND</i>
<i>Lanthanum (La)<sup>2</sup></i>			
<i>Europium (Eu)<sup>2</sup></i>			
<i>Gadolinium (Gd)<sup>2</sup></i>			

 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>Products tested</i>	<i>Picture</i>
<p>AL-FAKHER LDPE 3505 BLACK/WHITH</p>	