



## Test Certificate No. 7112200509

Issued under Section 12 of the Standards Law, 1953

### Details of order:

Order name:	MCP Performance Plastic Ltd
Address:	Kibbutz HAMAAPIL, Israel
Date order:	18/01/2021

### Sample Description As Declared:

Products:	PET Film Manufacture country: USA
Sampled by: Customer	with the requirements of Israel Standard 5113 - "Plastic materials and plastic articles in contact with food and beverages", Jan 2019
Sample received in lab:	18-Jan-21
Testing time:	From: 25-Jan-21 To: 01-Feb-21
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)

<p><b>This document contains 4 pages and may be used only in full.</b></p>	<p><b>The test results in this document refer only to the item tested.</b></p>	<p><b>This document does not constitute a license to mark the product with the standards mark</b></p>
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### Conclusion:

For compliance with EU Regulation 10/2011 as amended and Israel Standard SII 5113 (2019)	
1. Overall migration of extractives from packaging using solvents simulating types of foodstuffs according to Regulation (EU) 10/2011.	Comply
2. Specific migration of primary aromatic amines (PAA) according to Regulation (EU) 10/2011	Comply
3. Specific migration of substances according to Regulation (EU) 10/2011 and (EU) 1245/2020	Comply

Certified by:

**Gadi Efrati**

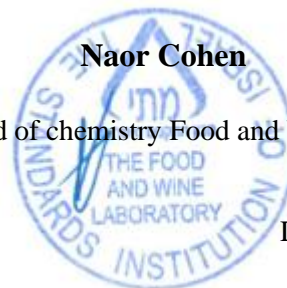
Head of Food Contact Materials Section

**Naor Cohen**

Head of chemistry Food and Water Branch



Certificate Number: AT-2045



Date: 02/02/2021

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**Description: PET film**

Aqueous, acidic, oily and dry High temperature applications up to 121 °C (OM5) and 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  $70\text{ °C} \leq T \leq 100\text{ °C}$  for a maximum of  $t = 120/2^{(T-70)/10}$  minutes and High temperature applications (OM2,OM3,OM4,OM7).

**1- Overall Migration Protocol**

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

Selection of test method: EN 1186-1

<i>Tested sample</i>	<i>Food Simulants</i>	<i>Test conditions</i>	<i>Extractives, mg/sq. dm</i>	<i>Limit, mg/sq. dm</i>
<i>PET film</i>	<i>A</i>	<i>8 hours at 100°C</i>	<i>&lt;1</i>	<i>10</i>
<i>PET film</i>	<i>B</i>	<i>8 hours at 100°C</i>	<i>&lt;1</i>	<i>10</i>
<i>PET film</i>	<i>D2 (Ethanol 95%)</i>	<i>6 hours at 60°C</i>	<i>&lt;1</i>	<i>10</i>
<i>PET film</i>	<i>E</i>	<i>2 hours at 175°C</i>	<i>1.7</i>	<i>10</i>

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

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

As specified in Regulation (EU) No. 10/2011 ANNEX II (Not REACH regulation). Method: UV/Vis spectroscopy

<i>Tested sample</i>	<i>Food Simulants</i>	<i>Test condition</i>	<i>Result, mg/kg</i>	<i>Limit, mg/kg</i>
<i>PET film</i>	<i>Acetic acid 3%</i>	<i>8 hours at 100°C</i>	<i>ND</i>	<i>0.01</i>

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### 3-Specific migration of metals according to Regulation (EU) 10/2011

Selection of test method: EN 13130-1 and sample preparation in 3 w/w % acetic acid at 100°C for 8 hours

As specified in Regulation (EU) No. 10/2011 ANNEX II. Method: ICP-AES (inductively argon coupled plasma emission spectroscopy)

Substances	SML, mg/kg	MDL, mg/kg	Results, mg/kg
Aluminum (Al)	1	0.02	ND
Ammonium <sup>1</sup>	-	-	-
Antimony (Sb)	0.04	0.020	0.02
Arsenic (As)	0.01	0.0025	ND
Barium (Ba)	1	0.020	ND
Cadmium (Cd)	0.002	0.0020	ND
Calcium (Ca) <sup>1</sup>	-	-	-
Chromium (Cr) <sup>2</sup>	Less than MDL <sup>4</sup>	0.0025	ND
Cobalt (Co)	0.05	0.0025	ND
Copper (Cu)	5	0.100	ND
Zinc (Zn)	5	0.100	ND
Iron (Fe)	48	0.2	ND
Lead (Pb)	0.01	0.0025	ND
Lithium (Li)	0.6	0.01	ND
manganese (Mn)	0.6	0.01	ND
Magnesium (Mg) <sup>1</sup>	-	-	-
Mercury (Hg)	Less than MDL <sup>4</sup>	0.0025	ND
Nickel (Ni)	0.02	0.0025	ND
Potassium (K) <sup>1</sup>	-	-	-
Sodium (Na) <sup>1</sup>	-	-	-
Terbium (Tb) <sup>3</sup>	0.05	0.005	ND

1. Migration is subject to Articles 11(3) and 12.
2. Less stringent limit of 3.6 mg/kg applies if pre-existing documentation demonstrates Cr (VI) is excluded.
3. 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.
4. MDL – 0.0025 mg/kg
5. ppm=mg/kg (1,000 ppm=1,000 mg/kg=0.1%); SML = Specific Migration Limit;
6. ND= Not Detected (<MDL); MDL=Method Detection Limit;

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ANNEX 1- TESTED SAMPLE

<u>Material</u>	<u>CAT NUMBER</u>	<u>SAMPLE</u>
PET	-	

**-End of Document-**