



Test Certificate 9912208808/1

Issued under Section 12 of the Standards Law, 1953

Details of order:

Table with order details: Order name: Polyraz industries, Address: Maoz Haim 10845, ISRAEL, Date order: 14-Aug-19

Sample Description As Declared:

Table with sample description: Products: MLFPP/PE, Sampled by: Customer, Sample received in lab: 14-Aug-19, Testing time: From: 15-Aug-19 to 08-Sep-19, 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)

Three boxes containing disclaimers: 'This document contains 3 pages and may be used 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:

Table with 2 columns: Test description and Result. Includes compliance with EU Regulation 10/2011 and Israel Standard SII 5113, and five specific test items, all resulting in 'Comply'.

Certified by:

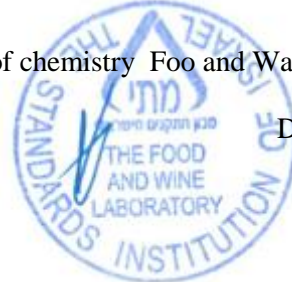
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Date: 16/09/2019



Certificate Number: AT-2045

## Test Certificate No.9912208808/1

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**Description:** MLFPP/PE Sheet and thermoforming products from it, PE is food contact layer.  
 Aqueous and alcoholic foodstuffs, acidic, oily, milk products and dry food products for hot fill conditions at a temperature between 70°C for 2 hours, or heating up to 100°C for up to 15 minutes and also for prolonged storage at 40°C and refrigerated storage.

### 1- Overall Migration Protocol

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

Selection of test method: EN 1186-1

Tested sample	Food Simulants	Test conditions	Extractives, mg/sq. dm	Limit, mg/sq. dm
MLFPP/PE	A (Ethanol 10%)	10 days at 40°C	<1	10
MLFPP/PE	B (Acetic acid 3%)	10 days at 40°C	1.1	10
MLFPP/PE	D2 (Olive oil)	10 days at 40°C	4.2	10

### 2-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 40°C for 10 days

Method: ICP-AES (inductively argon coupled plasma emission spectroscopy)

Soluble metal	SML, ppm	MDL, ppm	Results, ppm
Barium	1	0.1	ND
Cobalt	0.05	0.05	ND
Copper	5	0.1	ND
Iron	48	1	ND
Lithium	0.6	0.1	ND
Manganese	0.6	0.1	ND
Zinc	25	0.5	ND
Aluminum	1	0.1	ND
Nickel	0.02	0.01	ND

Note:

ppm=mg/kg (1,000 ppm=1,000 mg/kg=0.1%); SML = Specific Migration Limit;x

ND= Not Detected (&lt;MDL); MDL=Method Detection Limit;

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

As specified in Regulation (EU) No. 10/2011 ANNEX III and V. Method: In-house method

Tested sample	Food Simulants	Test conditions	Extractives, mg/kg	Limit, mg/kg
MLFPP/PE	Acetic acid 3%	10 days at 40°C	ND	0.01

### 4- Total Extractives –21 FDA 175.300

As specified in U.S Food and Drug Administration 21 FDA 175.300 table 2 condition of use: C

Tested sample	Simulants	Test conditions	Extractives, mg/in <sup>2</sup>	Limit, mg/in <sup>2</sup>
MLFPP/PE	Distilled water	Fill boiling cool to 100 deg. F	<0.1	0.5
MLFPP/PE	Heptane	15 minutes at 120 deg. F	<0.1	0.5
MLFPP/PE	Ethanol 8%	2 hours at 150 deg. F	<0.1	0.5

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**5. Lead, cadmium,mercury, hexavalent chromium Content in MLFPP/PE Sheet***Test Method :Laboratory Standard Operating Procedures in the determination of:**Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr (VI)) By direct X-ray Fluorescence Spectrometry (XRF) Screening.*

<b>Element tested</b>	<b>Limit, ppm</b>	<b>Results, ppm</b>
<i>Lead (Pb)</i>	-	<5
<i>Cadmium (Cd),</i>	-	<5
<i>Mercury (Hg)</i>	-	<5
<i>Hexavalent Chromium (Cr (VI))</i>	-	<5
<i>Sum of (Pb), (Cd), (Hg), (Cr (VI))</i>	<i>100</i>	<i>&lt;20</i>

**-End of Document-**