



Test Certificate No.9912203585

Issued under Section 12 of the Standards Law, 1953

Details of order:

Order name:	MCP Performance Plastic Ltd
Address:	Kibbutz HAMAAPIL, Israel
Date order:	25/03/2019

Sample Description As Declared:

Products:	CPET Trays (2165, 2052, 2103, 2511, 2216, 2223 black, 2223 white, 2006, 2035)
Sampled by: Customer	
Sample received in lab:	25-Mar-19
Testing time:	From: 25-Mar-19 To: 11-Apr-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)

This document contains 5 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:

1. Overall migration of extractives from packaging using solvents simulating types of foodstuffs according to Regulation (EU) 10/2011.	Comply
2. Specific migration of heavy metals according to Regulation (EU) 10/2011.	Comply
3. Specific migration of Ethyleneglycol and Diethyleneglycol according to Regulation (EU) 10/2011	Comply
4. Specific migration of primary aromatic amines (PAA) according to Regulation (EU) 10/2011	Comply
5. Specific migration of Antimony (Sb) according to Japan's publication "Specification and Standards for Food, Food Additives, Etc. specifications and standards for foods food additives etc. under the food sanitation act, 2010.	Comply
6. U.S. Food and Drug Administration 21 CFR 177.1630 "Polyethylene phthalate polymers"- Chloroform-soluble extractive residues.	Comply

Certified by:

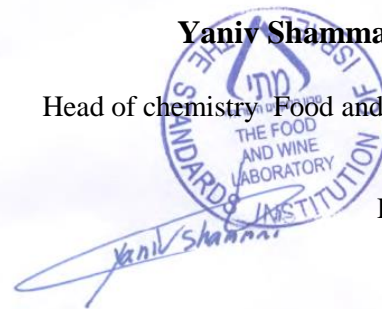
Gadi Efrati

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Head of Food Contact Materials Section

Yaniv Shammai

Head of chemistry Food and Water Branch



Date: 15/04/2019

Certificate Number: AT-2045

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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>
CPET trays	A	8 hours at 100°C	<1	10
CPET trays	B	8 hours at 100°C	<1	10
CPET trays	D2 (Ethanol 95%)	6 hours at 60°C	<1	10
CPET trays	E	2 hours at 220°C	1.3	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 100°C for 8 hours. Method: ICP-AES (inductively argon coupled plasma emission spectroscopy)			
<i>Soluble metal</i>	<i>SML, ppm</i>	<i>MDL, ppm</i>	<i>Results, ppm</i>
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	5	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;
ND= Not Detected (<MDL); MDL=Method Detection Limit;

3- Specific migration of Ethyleneglycol and Diethyleneglycol				
As specified in Regulation (EU) No. 10/2011 ANNEX III and V. Method: GC-FID				
<i>Tested sample</i>	<i>Food Simulants</i>	<i>Test conditions</i>	<i>Extractives, mg/kg</i>	<i>Limit, mg/kg</i>
CPET trays	Ethanol 99%	18 hours at 60°C	ND	30

4- 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: HPLC				
<i>Tested sample</i>	<i>Food Simulants</i>	<i>Test condition</i>	<i>Result, mg/kg</i>	<i>Limit, mg/kg</i>
CPET trays	Acetic acid 3%	4 hours at 100°C	ND	0.01

5-Specific migration of Antimony			
Sample preparation in 4% w/w acetic acid at 95°C for 0.5 hour. Method: ICP-AES (inductively argon coupled plasma emission spectroscopy)			
<i>metal</i>	<i>SML, µg/ml</i>	<i>MDL, µg/ml</i>	<i>Results, µg/ml</i>
Antimony	0.05	0.001	0.002

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6- FDA 177.1630 "Polyethylene phthalate polymers"- Chloroform- soluble residues

To determine Chloroform- soluble extractive residues from polyethylene terephthalate polymers used in contact with food

Selection of test method: with reference to US FDA 21 CFR 177.1630

<i>Simulants</i>	<i>Test conditions</i>	<i>Extractives, mg/in²</i>	<i>Limit, mg/in²</i>
<i>Distilled water</i>	<i>2 hours at 250 deg. F</i>	<i><0.1</i>	<i>0.5</i>
<i>Heptane</i>	<i>2 hours at 150 deg. F</i>	<i><0.1</i>	<i>0.5</i>

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ANNEX 1- TESTED SAMPLES-CPET

<u>CAT NUMBER</u>	<u>SAMPLE</u>
<u>2165</u>	
<u>2052</u>	
<u>2103</u>	
<u>2511</u>	
<u>2216</u>	

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<p><u>2223 Black</u></p>	
<p><u>2223 White</u></p>	
<p><u>2006</u></p>	
<p><u>2035</u></p>	

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