



ISRAEL PLASTICS & RUBBER CENTER (IPRC)



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Report No.: R/2035-3

Date: 04/04/2016

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Food Contact Plastic Test Report

Conformity with: Framework Regulation (EC) No. 1935/2004, Regulation (EU) No. 10/2011 and its amendments, Israeli Standard 5113 and title 21 Code of Federal Regulations section 175.300 table 2 condition B (for MLPS), condition C (for PS/PE) and condition E (for PS).

ISPLRC Job No.	R2035-3
Client:	Polyraz Plastic Industries Ltd
Client's Address:	Kibbutz Maoz Haim, 10845 Israel.
Item tested:	<ol style="list-style-type: none"> 1) PS mono film and thermoforming products of it, PS is food contact layer 2) PS/PE – multilayer film and thermoforming products of it, PE is food contact layer 3) MLPS – multilayer film and thermoforming products of it, PE is food contact layer
Item designation:	Storage of fatty, acidic and aqueous foodstuff.
Arrival in Lab:	28-Dec-2015
Testing Period:	Until 04-April-2016

Summary of test results:

Test Conducted	Result
Overall Migration Test – PS mono film	PASS
Overall Migration Test – PS/PE multilayer film	PASS
Overall Migration Test – MLPS multilayer film	PASS
FDA Compliance – PS mono film	PASS
FDA Compliance – PS/PE multilayer film	PASS
FDA Compliance – MLPS multilayer film	PASS



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Overall Migration test:

Test Requested:

Overall migration of extractives from packaging, using solvents that are simulating types of foodstuffs for compliance with EU Regulation (EU) No. 10/2011 and its amendments: "Plastics materials and articles intended to come into contact with food", and overall migration according to Israeli standard 5113.

To determine compliance with title 21 Code of Federal Regulations section 175.300 table 2 condition B (for MLPS), condition C (for PS/PE) and condition E (for PS), for all type of foods as described in section 175.300 table 1.

1) Applied Test Method & Conditions EU regulations:

Test Method	Principle
EN 1186 - 4	Test methods for overall migration into olive oil by cell.
EN 1186 - 5	Test methods for overall migration into aqueous food simulants by cell.

Test Number	Contact time in days [d] or hours [h] at Contact temperature in [°C]	Intended food contact conditions
OM2	10 d at 40 °C	Any long term storage at room temperature or below, including heating up to 70 °C for up to 2 hours, or heating up to 100 °C for up to 15 minutes.
OM4	1 h at 100 °C	High temperature applications for all food simulants at temperature up to 100 °C.

2) Applied Test Method & Conditions FDA regulations:

As outlined in 21 CFR 175.300, see section 3 of this report.



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3) Test Results

Table with 6 columns: Item, Simulant, Test method, Test conditions, Overall migration Results (mg/dm²), Max. Permissible Limit (mg/dm²). Rows include PS mono film, PS/PE multilayer film, and MLPS multilayer film with simulants B, D1, and D2.

Note: Simulant B: Acetic Acid 3% (w/v) °C: degree Celsius
Simulant D1: Ethanol 50% (v/v) <: less than
Simulant D2: Vegetable oil
mg/kg: milligram per kilogram of foodstuff
mg/dm²: milligram per square decimeter

Table with 6 columns: Item, Extractant, Test Method Reference to:, Test conditions, OML Res. (mg/in²), Max. Per. (mg/in²). Rows include PS mono film, PS/PE multilayer film, and MLPS multilayer film with extractants Water, Heptane, and 8% v/v Ethanol.

Note: OML Res.: Overall Migration Results °F: degree Fahrenheit
Max. Per.: Max. Permissible Limit <: less than
mg/in²: milligram per square inch



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Conclusions:

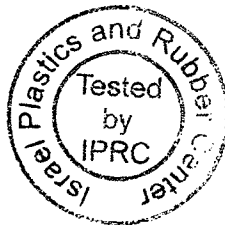
The submitted sample complies with Framework Regulation (EC) No. 1935/2004 and overall migration limit for fatty, acidic and milk products, aqueous and alcoholic foodstuffs, as required in Regulation (EU) 10/2011 and Israeli Standard 5113. For PS mono film and PS/PE multilayer film, covers long term storage at room temperature and less severe conditions (refrigerated and deep-frozen storage), including heating up to 70 °C for up to 2 hours or up to 100 °C for 15 min. For MLPS film, it covers high temperature applications at temperature up to 100 °C.

The submitted sample complies with title 21 Code of Federal Regulations section 175.300 table 2 condition B (for MLPS), condition C (for PS/PE) and condition E (for PS), for all type of foods as described in section 175.300 table 1.

The results reported herein, relate only to the sample tested and do not necessarily represent the lot from which they originate. Unless otherwise stated, the samples have been freely selected, indexed and provided by the client. Without written permission of ISPLRC this test report is not permitted to be duplicated. This test report does not entitle to carry any safety mark on this or similar products. The use of ISIRAC symbol relates to tests which are included in the organization scope of accreditation and performed according to the accreditation rules as detailed in the accreditation certificate. The fatty simulants are being tested at accredited laboratory. ISIRAC is not responsible for the results of the tests performed by the organization/research facility and accreditation/recognition does not constitute a certificate of approval of any item, system or process tested.

Approved By:

Tehila Feiglin
Head of Department



Toby Levy Zimmerman
Chemical Eng. – Polymer Chemist

End of Report