



ISRAEL PLASTICS & RUBBER CENTER (IPRC)



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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 E.

ISPLRC Job No.	R2035-2
Client:	Polyraz Industries ACS Ltd.
Client's Address:	Kibbutz Maoz Haim, 10845 Israel.
Item tested:	1) PVC mono film and thermoforming products of it, PVC is food contact layer 2) MLPVC – multilayer film and thermoforming products of it, PE is food contact layer
Item designation:	Storage of fatty, acidic and aqueous foodstuff.
Use:	Room temperature filled and stored.
Arrival in Lab:	28-Dec-2015
Testing Period:	Until 09-Mar-2016

Summary of test results:

Test Conducted	Result
Overall Migration Test - PVC mono film	PASS
Overall Migration Test - MLPVC	PASS
FDA Compliance - PVC mono film	PASS
FDA Compliance - MLPVC	PASS



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Overall Migration test:

Test Requested:

To determine compliance with Framework Regulation (EC) No. 1935/2004, Regulation (EU) No. 10/2011 and its amendments, and Israeli Standard 5113 - for plastics materials and articles intended to come into contact with food.

To determine compliance with title 21 Code of Federal Regulations section 175.300 table 2 condition E (room temperature filled and stored, no thermal treatment in the container) and less severe conditions, 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 - 3	Exposure to aqueous food simulants by total immersion
EN 1186 - 4	Overall migration into oil by cell
EN 1186 - 5	Exposure to 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.

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

Item	Simulant	Test method	Test conditions	Overall migration Results (mg/dm^2)	Max. Permissible Limit (mg/dm^2)
PVC mono film	B	EN 1186-3	10 d at 40 °C	2.93	10
	D1	EN 1186-3	10 d at 40 °C	3.93	10
	D2	EN 1186-4	10 d at 40 °C	6.10	10
MLPVC film	B	EN 1186-5	10 d at 40 °C	1.09	10
	D1	EN 1186-5	10 d at 40 °C	3.14	10
	D2	EN 1186-4	10 d at 40 °C	6.60	10

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/dm^2 : milligram per square decimeter

Item	Extractant	Test Method Reference to:	Test conditions	OML Res. (mg/in^2)	Max. Per. (mg/in^2)
PVC mono film	Water	21 CFR 177.300	120 °F 24 hr.	< 0.1	0.5
	Heptane	21 CFR 177.300	120 °F 24 hr.	< 0.1	0.5
	8% v/v Ethanol	21 CFR 177.300	120 °F 24 hr.	< 0.1	0.5
MLPVC film	Water	21 CFR 175.300	150 °F 2 hr.	< 0.1	0.5
	Heptane	21 CFR 175.300	100 °F 30 min	< 0.1	0.5
	8% v/v Ethanol	21 CFR 175.300	150 °F 2 hr.	< 0.3	0.5

Note: OML Res.: Overall Migration Results °F: degree Fahrenheit
 Max. Per.: Max. Permissible Limit <: less than
 mg/in^2 : milligram per square inch



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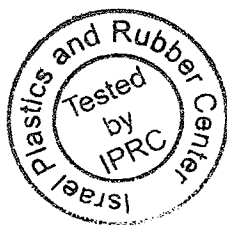
Conclusions:

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. It 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.

The submitted sample complies with title 21 Code of Federal Regulations section 175.300 table 2: "Procedures for determination the amount of extractives from resinous or polymeric coating", under condition E: "Room temperature filled and stored, no thermal treatment in the container ", as well for less severe conditions, 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:



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End of Report