



המעבדה לאריזה
PACKAGING LABORATORY

Plastovack(1990) Ltd.

Fax: 03 9617758

8Shimon Israeli

Industrial area Rishon Lezion 75854

1/1/2008

Ms. Tania

Ms,

**Re: Migration tests according to EU Directives and Israeli standard 5113
from PVC trays and PET trays intended for food packaging manufactured by "Plastovack."**

Description of samples: PVC and PET trays intended for food packaging and manufactured by "Plastovack." The samples were selected and delivered to the Packaging Laboratory by the client.

Purpose of tests: Migration from the trays to test their suitability to come in contact with food products.

Methods of tests: The overall migration tests were done according to EU Directives and Israeli standard 5113 as follows:

1. Directive 85/572/EEC, Official Journal of the European Communities, No L372/16: Annex List of Simulant and amendments 2007/19/EC, L91/17.
2. Directive 90/128/EEC, Official Journal of European Communities, No. L75/21: L75/22, and its amendments up to 2002/17/EC.
3. Directive 2002/72/EC and amendments 2004/1/EC and 2004/19/EC and 2005/79/EC.
4. Directive 82/711 and amendment 97/48/EEC. CONSLEG:1982L0711-01/09/1997.
5. DD ENV 1186: Materials and articles in contact with foodstuffs – Plastics, parts 1-16.
6. Directive 1935-2004 replacing Directive 89/109/EEC.
7. Israeli standard 5113: Plastic materials and plastic articles in contact with food and beverages.

The tests performed included overall migration from the trays into 3% acetic acid for 10 days at 40°C. Afterwards the simulant was evaporated and the residual extract (total migration) was determined.

Migration into an oil simulant (isooctane) was done according to Directive 97/48/EC. The test conditions were 48 hours at 20°C. These conditions are equivalent to 10 days at 40°C with olive oil.

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RESULTS: Results refer to the samples tested only.

The overall migration is expressed as milligrams of material extracted from one square decimeter of the tested articles or into 1 kg of simulant, and is presented in the following table. The results reported are an average of at least 3 replicates.

Overall migration from the PVC and PET trays

Product	3% acetic acid		Isooctane	
	mg/dm ²	mg/kg	mg/dm ²	mg/kg
PVC trays	<1	<1	<1	1.7
PET trays	<1	1.2	<1	2.3

The EC Directive 90/128/EEC relating to Plastic Materials and Articles intended to come in Contact with Foodstuffs, states in article 2 that: Plastic materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding **10 mg per decimeter square** of surface area of material or article, or **60 mg per kilogram of simulant**.

Based on above tests, migration from the tested PVC and PET trays, was within the allowed limits of the **EU DIRECTIVES and Israeli Standard 5113** for aqueous, acidic and fatty products up to 40°C.

Sincerely Yours

Joseph Miltz *W. Passy*

Prof. Joseph Miltz
Head of Laboratory

Nehama Passy
Package Engineer

