ISRAEL PLASTICS & RUBBER CENTER.

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Test Report

Overall Migration

According to commission Regulation (EU) No. 10/2011 as amended till (EU) 2020/1245,
CFR - Code of Federal Regulations Title 21 - FDA 175.300 and Israeli Standard 5113

IPRC Job No.	R/3634
Client:	**Tavig Israel Ltd**
Contact person:	Edna Chen.
Client's Address:	43 Yitzchak Ben Zvi St, B.O. box 4556 Rishon-Lezion 75633
Item tested:	PP white square bucket 5 and 3 liter ,Sw75av.
Item designation:	bucket for All types of food (aqueous, acidic and fatty foodstuff) .
Use:	Room temperature filled and stored and/or refrigerated and/or frozen conditions, including "Hot-fill", for disposable use only
Arrival in lab:	24-Nov-2022
Testing period:	28-Nov-2022 - 28-Dec-2022
Sample drawn by:	Client
Objectives of examination:	To test Overall Migration according to Regulation (EU) No. 10/2011 of 14th Jan 2011 on Plastic Materials and Articles Intended to come in contact with food, CFR - Code of Federal Regulations Title 21 - 175.300 and Israeli Standard 5113

Table 1: Summary of test results

Item tested:	Test Conducted	Result
PP white square bucket 5 and 3 liter ,Sw75av.	Overall Migration Test – EU 10/2011	**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.

Table 2: Applied test methods

Test Method	Principle
EN 1186 - 3	Test methods for overall migration into aqueous food simulants by total immersion
EN 1186 - 13	Test methods for overall migration at high temperatures

Table 3: Standardized testing conditions

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 when packed under hot-fill conditions, and/or heating up to a temperature T where 70 ˚C ≤ T ≤ 100 ˚C for a maximum of t = 120/2^((T-70)/10) minutes

Table 4: Test Results EU 10/2011

Item	Units	Simulant	Test method	Test conditions	Overall Migration Results		Max. Limit
					Single results	Average	
PP white square bucket 5 and 3 liter ,Sw75av.	mg/dm^2	A	EN 1186-3	10 d/40 °C	0.7; 0.5; 0.7	0.63	10
	mg/dm^2	B	EN 1186-3	10 d/40 °C	4.8; 4.7; 4.8	4.8	10
	mg/dm^2	E	EN 1186-13	2hr\100°C	0.7; 0.8; 0.7	0.73	10
	mg/dm^2	D2(*)	EN 1186-2	10 d/40 °C	3.2; 3.3; 3.5	3.33	10

Note: Simulant A: 10% Ethanol (v/v)
Simulant B: Acetic Acid 3% (w/v)
Simulant E: poly(2,6-diphenyl-p-phenylene oxide)
Simulant D2: Fatty simulant Iso-octane.
mg/dm^2: milligram per square decimeter
ND = Not Detected; d=day; hr=hour; °C: degree Celsius

4(*) Due to technical challenges in the conditioning procedure of the samples; a change in mass between two consecutive weighing, of less than 5 mg/dm², could not be achieved. Therefore, alternative test method for the assessment was employed, as described in EN 1186-14: "Exposure into Iso-octane and 95 % ethanol". That is, the higher migration result is presented in the report as required in Commission Regulation 2016/1416 "Amending and correcting (EU) No 10/2011 on plastic materials and articles intended to come into contact with food". Therefore, in this case the highest results were received from migration in Iso-octane

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Conclusions:

- The submitted samples comply with the overall migration requirements of Regulation (EU) 10/2011 as amended; according to table 2 of Annex III of the Regulation, testing the combination of simulants A, B, E and D2 allows to conclude on compliance for all types of food. According to Chapter 3 of Annex V of the Regulation, Overall Migration test condition OM2 covers any long term storage at room temperature or below, including when packed under hot-fill conditions, and/or heating up to a temperature T where 70 ˚C ≤ T ≤ 100 ˚C for a maximum of t = 120/2^((T-70)/10) minutes.

The submitted sample is shown in the following figure No. 1:



Fig. No. 1: PP white square bucket 5 and 3 liter ,Sw75av, R-3634.

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 IPRC 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 ISRAC symbol relates to tests which are included in the organization scope of accreditation and preformed according to the accreditation rules as detailed in the accreditation certificate. It is the responsibility of the manufacturer of the finished plastic food contact article to verify that the finished articles are in compliance with the defined SML. The manufacturers of the finished food contact material or article must verify that the finished material or article, manufactured according to good manufacturing practices and does not modify the organoleptic properties of the food. ISRAC 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. The test report does not contain the uncertainty values. The tested sample is not cleared for contact with baby foods for infants and young children
This certificate is valid only with the rest of the test certificates for this product: specific migration test of metals: report: R/3634-Metals.

Tested by: Anya Bar, Chemist

Israel Plastics and Rubber Center Tested by IPRC

Approved by: Hagit Ichye, Chemist

End of Report