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Test Certificate 9912208794

Issued under Section 12 of the Standards Law, 1953

Details of order:

Order name: Polyraz industries

Address: Maoz Haim 10845, ISRAEL

Date order: 14-Aug-19

Sample Description As Declared:

Products: MLPVC

Sampled by: Customer

Sample received in lab: 14-Aug-19

Testing time: From: 15-Aug-19 to 08-Sep-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 3 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:

For compliance with EU Regulation 10/2011 as amended and Israel Standard SII 5113

1. Overall migration of extractives from packaging using solvents simulating types of foodstuffs Comply

2. Specific migration of heavy metals according to Regulation (EU) 10/2011

3. Specific migration of primary aromatic amines (PAA) according to Regulation (EU) 10/2011

4. U.S. Food and Drug Administration 21 CFR 175.300- "Resinous and polymeric coatings"

5. Determination of Total Lead (Pb), Cadmium (Cd), Mercury (Hg) and Hexavalent Chromium (Cr

(VI)) according to European directive 94/62/EC.

romium (Cr | Comply

Certified by:

Gadi Efrati

Naor Cohen

Head of Food Contact Material Section

Acting Head of chemistry Food and Water Branch

ANAB ACCREDITED ISONE 17028 TESTING LABORATORY

Certificate Number: AT-2045



Date: 10/09/2019

Comply

Comply

Comply

Chemistry, Food and Water Branch, 42 Chaim Levanon St, Tel Aviv 6997701 Israel, Tel: 972-3-6465138, Fax: 972-3-6465036, E-mail: for food: food@sii.org.il, for wine: wine@sii.org.il, for food

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Description: PVC/PE Sheet and thermoforming products from it, PE is food contact layer.

Aqueous and alcoholic foodstuffs, acidic, oily, milk products and dry food products for hot fill conditions at a temperature between 70°C for 2 hours, or heating up to 100°C for up to 15 minutes and also for prolonged storage at 40°C and bellow (refrigerated and deep-frozen storage).

1- Overall Migration Protocol

Selection of test conditions as specified to Regulation 10/2011 Annex III, V;

Selection of test method: EN 1186-1

Tested sample	Food Simulants	Test conditions	Extractives, mg/sq. dm	Limit, mg/sq. dm
MLPVC	A (Ethanol 10%)	10 days at 40°C	<1	10
MLPVC	B (Acetic Acid 3%)	10 days at 40°C	2.5	10
MLPVC	D2 (Olive oil)	10 days at 40°C	<1	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 40°C for 10 days

Method: ICP-AES (inductively argon coupled plasma emission spectroscopy)

interior 101 1125 (interior) argon coupled plasma companies processor 5)				
Soluble metal	SML, ppm	MDL, ppm	Results, ppm	
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	25	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;x

ND= Not Detected (<MDL); MDL=Method Detection Limit;

3- 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: In-house method				
Tested sample	Food Simulants	Test conditions	Extractives, mg/kg	Limit, mg/kg
MLPVC	Acetic acid 3%	10 days at 40°C	ND	0.01

4- Total Extractives -21 FDA 175.300

As specified in U.S Food and Drug Administration 21 FDA 175.300 table 2 condition of use: D

Tested sample	Simulants	Test conditions	Extractives, mg/in ²	Limit, mg/in ²
MLPVC	Distilled water	2 hours at 150 deg. F	< 0.1	0.5
MLPVC	Heptane	30 minutes at 100 deg. F	0.1	0.5
MLPVC	Ethanol 8%	2 hours at 150 deg. F	< 0.1	0.5

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5. Lead, cadmium, mercury, hexavalent chromium Content in MLPVC Sheet

Test Method: Laboratory Standard Operating Procedures in the determination of: Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr (VI)) by direct X-ray Fluorescence Spectrometry (XRF) Screening.

Element tested	Limit, ppm	Results, ppm
Lead (Pb)	-	32
Cadmium (Cd),	-	28
Mercury (Hg)	-	<5
Hexavalent Chromium (Cr (VI)	-	<29
Sum of (Pb) , (Cd) , (Hg) , $(Cr(VI))$	100	<94

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