TEST REPORT

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05.04.2023	

EUROLAB LABORATUVAR A.Ş.

EUROLAB® Inspection & Testing Laboratory

Report No/ Rapor No :	2023050422
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Sample ID :	**LAMİNAT**

	TEST	METHOD	Specimen	RESULT
-	**Migration Test**	**EN 13130**	**LAMİNAT**	**PASS**
	Materials and objects in contact with food - Plastics Part 1: Guidelines for the selection of test conditions and test methods for overall migration	**EN 1186**		**PASS**

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.

Seal

Customer Representative
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EN 13130 - MIGRATION TEST

Scope

Since it is not always possible to use foodstuffs in testing food contact materials, food simulants are used. Food simulants are generally classified according to their characteristics of one or more food types. Food types and food simulants to be used are given in Table 1.

Table 1: Food Types and Food Equivalents

Food Types	General Classification	Food Like	Abbreviation
Aqueous Foods (e.g. aqueous foods with a pH> 4.5)	In the "Turkish Food Codex Communiqué on the List of Similar Foods Used in the Migration Test of Components of Plastic Materials in Contact with Foodstuffs", only foodstuffs in which similar A is used	10% Ethyl alcohol solution	Similar A
Acidic Foods (e.g. aqueous foods with pH <4.5)	In the "Turkish Food Codex Communiqué on the List of Similar Foods Used in the Migration Test of Components of Plastic Materials in Contact with Foodstuffs", only foodstuffs in which similar B is used	3% Acetic acid (weight / volume)	Similar B
Foods with an alcohol content is 20% and oil-in-water emulsions	In the "Turkish Food Codex Communiqué on the List of Similar Foods Used in the Migration Test of Components of Plastic Materials in Contact with Foodstuffs", only foodstuffs in which similar C is used	20% Ethyl alcohol solution	Similar C
Foods with an alcohol content of more than 20% and oil-in-water emulsions	In the "Turkish Food Codex Communiqué on the List of Similar Food Used in the Migration Test of Components of Plastic Materials in Contact with Foodstuffs", only foodstuffs in which similar D1 is used	50% Ethyl alcohol solution	Similar D1
Foods with free fat on their surface	In the "Turkish Food Codex Communiqué on the List of Similar Food Used in the Migration Test of Components of Plastic Materials in Contact with Foodstuffs", only foodstuffs in which similar D2 is used	Vegetable oil	Similar D2
Dry Foods	In the "Turkish Food Codex Communiqué on the List of Similar Food Used in the Migration Test of Components of Plastic Materials in Contact with Foodstuffs", only foodstuffs in which similar E is used	Poly(2,6-diphenyl-p-phenylene oxide) (particle size 60-80 mesh, pore size 200 nm)	Similar E

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Component	Specific Migration Limit (mg / kg)
Aluminum	1
Barium	1
Cobalt	0.05
Copper	5
Iron	48
Lithium	0.6
Manganese	0.6
Nickel	0.02
Zinc	5

Test Results

Laminat									
Food Sımulant	**Aluminum**	**Barium**	**Cobalt**	**Copper**	**Iron**	**Lithium**	**Manganese**	**Nickel**	**Zinc**
10% Ethyl alcohol solution	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
3% Acetic acid (weight / volume)	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
20% Ethyl alcohol solution	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
50% Ethyl alcohol solution	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
Vegetable oil	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
Poly(2,6-diphenyl-p-phenylene oxide) (particle size 60-80 mesh, pore size 200 nm)	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D

*N.D: Not Detected

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EN 1186 - Materials and objects in contact with food - Plastics Part 1: Guidelines for the selection of test conditions and test methods for overall migration

Scope

This part of the European Standard provides guidelines for the selection of suitable conditions and methods for testing overall migration in test foodstuffs made of plastics intended to come into contact with food.

Migration Test Conditions (Time and Temperature)

The highest temperature to be used in the label information and the plastic material or materials being studied are selected from the specified periods and temperatures for the worst contact conditions foreseen.
Plastics and articles in contact with foodstuffs at room temperature or below for an unspecified time:
When it is stated on the label that it should be used at room temperature or lower temperatures or for substances that are clearly required to be used at room temperature or lower temperatures, the test is carried out at 40 °C for 10 days. These time and temperature conditions are generally considered to be more severe.

Simulation	Condition Test
10% Ethanol (A)	10 days at 40 ° C
3% acetic acid aqueous solution (B)	10 days at 40 ° C
20% Ethyl alcohol solution (C)	10 days at 40 ° C
50% Ethyl alcohol solution (D1)	10 days at 40 ° C
Vegetable Oil (D2)	10 days at 40 ° C
Poly(2,6-diphenyl-p-phenylene oxide) (particle size 60-80 mesh, pore size 200 nm) (E)	10 days at 40 ° C

Total Migration

Food simulant	Test conditions	Limit* (mg/dm²)	Result
10% Ethanol (A)	10 day at 40°C	<10 mg/dm²	PASS
3% acetic acid aqueous solution (B)	10 day at 40°C	<10 mg/dm²	PASS
20% Ethyl alcohol solution (C)	10 day at 40°C	<10 mg/dm²	PASS
50% Ethyl alcohol solution (D1)	10 day at 40°C	<10 mg/dm²	PASS
95% Ethyl alcohol/ isooctane solution (D2)	10 day at 40°C	<10 mg/dm²	PASS
Poly(2,6-diphenyl-p-phenylene oxide) (particle size 60-80 mesh, pore size 200 nm) (E)	10 day at 40°C	<10 mg/dm²	PASS

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Sample Image

End of Report

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