

Vaatimustenmukaisuusilmoitus koskee seuraavia Ki-Sal Oy:n maahantuomia ja myymiä tuotteita:

Tuotekoodi	Tuotekuvaus	Toimittajan tuotenumero	Tuotetunnus
ORCB-300	Chicken Box 300kpl/ltk	PAP1750-083	Paper cup from PE coated board
ORSB1250	Salaattiboxi taittokannella 1250 ml 300kpl/ltk	FLT-G1000 0003	Paper cup from PE coated board
ORSB1250MK	Salaattiboxi Market Kitchen 1250 ml 300kpl/ltk	FLT-G1000 0002	Paper cup from PE coated board
ORCBKRAFT-300	Chicken Box, 300kpl/ltk	PAP-K1750 0001	Paper cup from PE coated board



Date : 22.06.2023

DECLARATION OF COMPLIANCE

For Food Contact Articles

We, Orego Arnbalaj San. Tie. A.'\$, hereby declare that paper cups from pe coated board are suitable to come in contact with foodstuffs, in conformity with the requirements of the following regulations and directives under the filling /treatment and storage conditions:

Regulation (EC) No 1935 / 2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80 /590 / EEC and 89/109/EEC.

Comission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food Text with EEA relevance and its successive amendments up to and including 2020/1245

Commission Regulation (EU) 2022/1616 of 15 September 2022 on recycled plastic materials and articles intended to come into contact with foods, and repealing Regulation (EC) No 282/2008 (Text with EEA relevance)

Commission Regulation (EC) No 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come into contact with food (Text with EEA relevance)

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

Requirements for packaging recoverable by material recycling BS EN 13430:2004

Council Directive 82/711/EEC of 18 October 1982 laying down the basic rules necessary for testing migration of the constituents of plastic materials and articles intended to come into contact with foodstuffs

Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants (Text with EEA relevance.)

FDA, CFR, Title 21 Part 177.1520 (a)(I), (b) and (c).1Olefin polymers

FDA, CFR, Title 21 Part 176.170 (Aqueous and Fatty Food Contact), 176.180 (Dry Food Contact) -Indirect Food Additives: Paper And Paperboard Components

The BfR recommendations XXXVI on paper and board for food contact in German

Swiss Ordinance On Materials And Articles In Contact With Food (Sr 817.023.21)

Türk Gıda Kodeksi Gıda ile Temas Eden Madde ve Malzemelere Dair Yönetmelik (05.04.2018 tarihli 30382 Sayılı Resmi Gazete)

Gıda ile Temas Eden Madde Ve Malzeme Oreten i letmelerin Kayıt i lemleri ile iyi Oretim Uygulamalarına Dair Yönetmelik (03.08.2012 tarihli 28373 Sayılı Resmi Gazete)

Osmangazi Mah. 2647 Sok. No:5-134522 Kira , Esenyurt / İSTANBUL- TÜRKİYE

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Ti.irk G1da Kodeksi G1da ile Temas Eden Plastik Madde Ve Malzemeler Teblig
(Teblig No: 2019/44)
Ti.irk G1da Kodeksi G1da ile Temas Eden Plastik Madde ve Malzemelerin Bile enlerinin
Migrasyon Testinde Kullanilan G1da Benzerleri Listesi Teblig (Teblig No: 2019/43)

Product Description

That PE coated cups produced by PMC process from the pe coated board. When the first step produced pe coated board process is the printing process that is print by offset. And then second step is the PMC.

Printing Process

We do our printing process with ink and lacque. Ink series has a special special low migration formulation. We take the food contact declaration from our ink and lacque suppliers.

Due to the low migration formulation it is reasonable to assume that with these products migration limit of the European Union should be well achievable {Regulation (EU) 10/2011 and Regulation {EU} 1183/2012). Therefore it should be possible with these products to fulfil the legal requirements of EC regulation 1935/2004.

Article 3 of the Regulation 1935/2004 (impact on food) demands, that materials and articles do not transfer their constituents to food in quantities which could endanger human health or bring about an unacceptable change in the composition of the food or bring about a deterioration in the organoleptic characteristics thereof.

A possible impact on the quality of food does not solely depend on the printing ink/lacquer itself but is depending on the complete production chain (ink laydown, UV-power, substrate, etc.). For this reason we can generally not confirm a compliance to Regulation 1935/2004 only based on the composition of the ink/lacquer.

The EuPIA defined the requirements on printing ink manufacturers in the EuPIA-GMP. Printing inks applied to the non-food contact side of materials are regulated in the Annex of GMP regulation, EU2023/2006. Substances from the printed surface may not transfer to the food contact side through the substrate or by "set-off" in the stack or the reel.

Regulation EU 10/2011 and 1282/2011 establishes the specific rules for plastic materials and articles to be applied for their safe use and repeals Commission Directive 2002/72/EC of 6 August 2002 on plastic materials and articles intended to come into contact with foodstuffs.

In this regulation, the so called PIM {Plastic Implementation Measure} limits are set for substances, which are allowed to be indirect contact with food and are allowed to migrate into the food up to the level listed in Annex 1.

Substances used in printing inks must not (with few exemptions) get in direct contact with food and are therefore not listed in Annex 1.

The Swiss Ordinance (SR 817.023.21) which is only mandatory in Switzerland, is generally accepted by many companies as this regulation clearly establishes requirements for the use of printing inks on food contact materials. The Swiss ordinance is accompanied by lists of permitted substances, including evaluated substances subject to the requirements set out therein, and substances which are not

evaluated yet but are permitted if demonstrated that no transfer (below 10 ppb) of these substances to food or food simulants can be detected.

Spesification of the Intended Use or Restrictions

-Type or types of food or processes for which the material is suitable:

- queous foods, Acidic foods, Low Alcoholic foods, Fatty foods and Dry foods
- Suitable for hot filling. Any longterm storage at room temperature or below. Including up to 70 °C for up to 2 hours or up to 100 °C for max.1 hour.
- The products are suitable to use directly without requiring any preparation and handling instructions.
- They can be used at refrigerator, freezer/fridge (-20°C to 5 °C more than 24 hrs)
- They can be used at room temperatures (up to 40 °C for more than 24 hrs)
- It is not suitable for using conventional ovens and infrared heaters.
- This polymer coated board is not suitable for de-freezing and/or re-heating of food (e.g. ready meals) in microwave oven.

Storage Conditions and Shelf Life:

-Said products have to be kept in their original packaging in a cool temperature and dry place The recommended storage conditions are at 50-55% relative humidity and 20-23 °C.

-Avoid direct exposure to sunlight and UV light. If the products are stored under the described conditions shelf life is three years.

- In order to secure/ensure product safety the product must be well wrapped and stored indoor, sheltered from rain and snow. We recommend converting of the paperboard within 12 months from manufacturing date and after this time rights of claims normally disappear.

Overall Migration Limit

The overall migration limit was determined according to EU regulation 10/2011 and is below the threshold limit value of 10 mg/dm² at 40 °C 10 days or 100 °C 1 day for food simulants A, B, C, D1, D2 and E.

The measurements have been performed every year at 40 °C 10 days or 100 °C 1 day according to test code TS EN 1186 and EN 14338 by an independent test institute.

Specific Migration Limit

Plastic materials and articles shall not release the following substances in quantities exceeding the specific migration limits below (EU) 10/2011- Annex 11) :

Simulant	SML (mg/kg food or food simulant)
Aluminium	1
Ammonium	-
Antimony	0,04
Arsenic	ND
Barium	1
Cadmium	ND (LOAD 0,002)

Calcium	-
Chromium	ND
Cobalt	0,05
Copper	5
Europium	0,05
Gadolinium	0,05
Iron	48
Lanthanum	0,05
Lead	ND
Lithium	0,6
Magnesium	-
Manganese	0,6
Mercury	ND
Nickel	0,02
Potassium	-
Sodium	-
Terbium	0,05
Zinc	5

The specific migration values shall be expressed in mg/kg applying the real surface to volume ratio in actual or foreseen use. According to EU 10/2011 the value of migration shall be expressed in mg/kg applying a surface to volume ratio of 6 dm² per kg of food.

SML's - plastic layer

Substances used in the board extrusion coating do not contain any monomers or additives with specific migration limit (SML) according to Commission Regulation (EU) 10/2011.

Bisphenol A:

The raw materials used in the production of paper cups and lids do not contain Bisphenol A.

Phthalates:

No phthalates are intentionally added in the production of paperboard.

Titanium Dioxide:

Paperboard producer hereby confirm that no Titanium dioxide is intentionally added in the production of paperboard.

Dual Use Additives:

Dual use additives subject to restrictions in food as defined in Regulation 10/2011/EC intentionally are not used in the manufacture or formulation of this product. This product does not contain monomers or additives which have SMLs, or QMAs as specified by Regulation 10/2011/EC.

Allergen Statements

Our paper cups products contains no identified allergenic materials and we hereby confirm that our products comply with the Food Allergen Labeling and Consumer Protection Act of 2004 (FALCPA) and the Regulation (EU) No 1169/2011, Annex 11. However this product has not been tested for these substances.

Osmangazi Mah. 2647 Sok. No:5-134522 Kirac,., Esenyurt / iSTANBUL-TURKiYE

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No identified allergenic materials are present in the manufacturing facility and the product is manufactured in dedicated equipment.

Functional Barrier

Our products haven't got functional barrier or the conformation that the material or article complies within the requirements.

Proposition 65

The paperboard does not require a warning under the Safe Drinking Water and Toxic Enforcement Act of 1986.

NIAS

NIAS subject to restrictions in food as defined in Regulation 10/2011/EC intentionally are not used in the manufacture or formulation of this product. This product does not contain monomers or additives which have SMLs as specified by Regulation 10/2011/EC. Our suppliers are expected to comply with NIAS. NIAS have been assessed following a risk assessment in accordance with internationally accepted scientific principles and comply with the requirements of Article 3 of Regulation (EC) No 1935/2004.

Recycled Raw Material Usage:

Orego PE coated cups are produced only from virgin coated board and do not contain post-consumer recycled components, and no obligation exists under the EU 2022/1616.

We do not use recycled coated board material in the manufacture of these products as described in the supporting document of the declaration of compliance by our suppliers.

Recycling

The our supplier product **Pe Coated** are paperboard with PE coating extrusion lamination, and this product is industrially **recyclable** according to **EN 13430**.

PFASs / PFCs / PFOA

According to third-party accredited laboratory testing, fluorine has not been detected in a water extract prepared from the product according to EN 645 (detection limit 0.05 µg/dm²).

By standing on the declarations of our raw material(paper, paperboard) suppliers, we commit that PFASs {Substances Perfluoroalkyle / Polyfluoroalkyle), PFCs {Perfluorocarbon) or PFOA (perfluorooctanoic acid) is not used during their production.. Based on declaration of conformity from raw material suppliers.

Bleached

When we use Bleached Cup Board that is "All used pulps are elemental chlorine free (ECF-pulps)" as described in the supporting document of the declaration of compliance by our suppliers.

Approved on Thursday, June 22, 2023. Valid for 1 year.

OREGO AMBALAJ SAN. VE TIC. A.Ş.
osmangazi Mah. 2647 Sok. No:5/1C
Esenyurt/İstanbul
Tel: 0212 858 13 33
B.Kurumlar Y.L.R. 07.06.2023 1643

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NANOLAB LABORATORY SERVICES**REPORT of EXAMINATION and ANALYSIS**

AB-0566-T

G23-6314/0

03-23

Report No / Rev. No : G23-6314/0 **Report Date** : 06.03.2023

The Purpose of Analysis : Special Request

Sample Sent by : OREGO AMBALAJ SAN.VE TİC.A.Ş.

Address : OSMANGAZI MH. 2647. SK NO:5/1C
KIRAÇ, ESENYURT/İSTANBUL

Sample Name : PE COATED BOARD FOOD PACKAGING

Sample Package : - **Sample Quantity** : 6 ADET/PCS

Temperature (°C) : 25 °C

Sample Acc. Date & Time : 01.03.2023 15:03

Analysis Start - Finish Date : 02.03.2023 - 06.03.2023

Analysis	Results	Method / Device	R (%)	E.U.(±)	LOQ	Limit	E
1-*Specific Migration Assay-Primer Aromatic Amine (Migration) ⁽¹⁾ (mg/kg)	Not Detected	EUR 24815 EN 2011 LC-MS/MS			0,002	Absent	P

Nanolab Laboratuvar Hizmetleri Kimya Gıda Danışmanlık Çevre Eğitim San. ve Tic. Ltd. Şti. accredited by TÜRKAK under registration number AB-0566-T for TS EN ISO / IEC 17025 as test laboratory

Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports

- No part of the analysis report can not be used alone or separately.
- This report can not be used in judicial-administrative proceedings and for advertising purposes.
- Analysis results are valid for the above mentioned sample.
- This report may not be partially copied or reproduced without the written permission of the laboratory.
- Unsigned and unsealed reports are not valid.
- The above mentioned values were determined as the result of the examination and analysis.
- Decision Rule: The conformity statement has been made in favor of the producer using quantitative physical and chemical analyses without considering measurement uncertainty in microbiological, sensory, and qualitative analyses (Simple Acceptance Rule).
- Abbreviations; E : Evaluation, P : Pass, F : Fail, N.I. : Not Interpreted, R : Recovery, E.U. : Expanded Uncertainty, LOQ : Limit of Quantification
- NI: Within the scope of the relevant legislation, no evaluation can be made for analyzes that do not have a limit value.
- The analysis signed with "" are in the scope of accreditation.
- For specific migration analyses, Food Similars have been selected by the Laboratory based on the Customer's Declaration in the D.08.PR.02 Packaging Analysis Request Form and may not include the product or product groups represented by the packaging.
- Determination of Migration was performed at 100°C, 1 hour using the method of filling with Food-Similar B without repetition. ⁽⁴⁾
- Specific Migration Assay-Primer Aromatic Amine (Migration) not detectable at the limit of quantification / Name [LOQ] Accreditation status: LC-MS/MS (0,002) : *2,4,5-Trimethylaniline (2,4,5-TMA), *2,4-Diaminoanisole (4-M-m-PDA), *2,4-Diaminotolunene (2,4-TDA), *2,4-Dimethylaniline (2,4-DMA), *2,6-Dimethylaniline (2,6-DMA), *2-Methoxy-5-methylaniline (2-M-5-MA), *2-Methyl-m-phenylenediamine (2,6-TDA), *4,4'-Diaminodiphenylmethane (4,4'-MDA), *4,4'-Methylene-bis-(2-methyl-aniline) (4,4'-MDoT), *4,4'-Oxydianiline (4,4'-DPE), *4-Aminobiphenyl (4-ABP), *4-Chloro-2-methylaniline (4-CoT), *4-Chloroaniline (4-CA); Aniline (ANL), *Benzidine (BNZ), *m-Phenylenediamine (m-PDA), *o-Anisidine (o-ASD), *o-Tolidine (3,3'-Dimethylbenzidine) (3,3'-DMB), *o-Tolidine (o-T), *p-Phenylenediamine (p-PDA)

İrfan ÜRKMEZ
ERMM Lab.

Manager
e-signed

Bülent TATLISÖZ
Manager of Sample
Accept. and Report

e-signed

Confirmable
06.03.2023
Yunus Emre YILMAZ
Lab. Manager

e-signed



This document has been electronically signed in accordance with the Electronic Signature Law No. 5070.

<https://eimza.nano-lab.com.tr/home/Index?privateCode=A7A578B1&date=06.03.2023>





Test
TS EN ISO IEC 17025
AB-0532-T

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FS10198554

03-23

T.C. TARIM VE ORMAN BAKANLIĞI
T.C. MINISTRY of AGRICULTURE and FORESTRY

INTERTEK
İSTANBUL ÖZEL GIDA KONTROL LABORATUVARI
INTERTEK İSTANBUL PRIVATE FOOD CONTROL
LABORATORY

MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT



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Rapor No/ Report No: FS10198554	Yayımlandığı Tarih/ Date: 09/03/2023
Analizin Amacı/ Purpose of Analysis: Özel İstek / Private Demand	
Müşteri Bilgileri / Customer Information	
Müşteri Adı / Customer Name	Orego Ambalaj San. ve Tic. A.Ş.
Adres / Address	Osmangazi mah. 2647. Sok., No:5 /1C 34522, Kiraç, Esenyurt, İstanbul, TURKEY,
Numune Bilgileri / Sample Information	
Adı / Name	PE Kaplı Kağıt Ambalajı - PE Coated Board Food Packaging
Üretici Adı / Producer Name	Orego Ambalaj San. Tic. A.Ş.
Tanımı ve Seri - Parti No / Description and Batch Number	A-2023-06
Üretim ve Son Kullanma T.-TETT/ Production & Expiry Date-BBE	22-02-2023
Ambalajı ve Miktarı / Package and Quantity	2x kilitli poşet / zipped package
İlgili Kişi / Contact Person	Filiz Emeklier [kalite@orego.com.tr]
Numune kabul tarihi / Sample received / transport by	27/02/2023 kargo / parcel services
Numune alım sıcaklığı / Sample temp when received	
Numuneyi teslim alan ve mühür / Submitted by & Seal	Müşteri Mühürsüz / Client None/
Teklif No / Quotation No	7522R1
Analiz başlama ve bitiş zamanı / Start / End of analysis	27.02.2023 / 08.03.2023
Açıklamalar / Remarks	

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Numune Kabul ve
Raporlama Birim
Sorumlusu /
**Supervisor of
Sample Receiving
and Reporting
Section**

Ecem Paşahan Omur
Ambalaj Analiz Birim
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Contact Materials
Analysis Section**

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**Supervisor of
Mineral Analysis
Section**

[Signatures]

09/03/2023

Tasdik Olunur / **Approved by**
Laboratuvar Müdürü / **Laboratory Manager**
Ahu Uner Akbalık

[Signature]

Form GD.165 / Rev.10/03.10.2022

Bu analiz raporu adli -idari işlemlerde ve reklam amacıyla kullanılamaz. Bu analiz raporunun hiçbir bölümü laboratuvarın yazılı izni olmadan kısmen kopyalanıp, çoğaltılamaz, tek başına veya ayrı ayrı kullanılamaz. Müşteri bilgileri ve numune bilgileri müşteri tarafından sağlanmıştır. Bilginin müşteri tarafından sağlandığı durumlar hariç, raporda verilen tüm bilgilerden laboratuvarımız sorumludur. Bu rapor (üst yazı ve ekler dahil), müşteri tarafından sağlanan numuneye ait tanımlar, talimat, bilgi, materyal ve/veya koşullar temelinde raporda belirtilen müşterinin talebine uygun olarak münhasır kullanımı için hazırlanmıştır. Analiz sonuçları yukarıda belirtilen numune için geçerlidir. İmzasız ve mühürsüz raporlar geçersizdir.

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Sayfa / Toplam Sayfa 1/5
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AB-0532-T
FS10198554
03-23

MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT

Rapor No/ **Report No:** FS10198554

Yayımlandığı Tarih/ **Date:** 09/03/2023

Analizler / **Analyses**

No	Analiz Adı Analysis Name	Sonuç Results	LOQ / LOD	Ölçüm Belirsizliği Uncertainty	Geri Kazanım Recovery	Cihaz Equipment	Metot Method	Limit Requirement	Değerlendirme Interpretation
1	Duyusal Analiz* Sensory Analysis*	Tat/ Taste:1,0 ; Koku/ Odour:0,5 1	-	-	-		DIN 10955	<= 2 a	Uygun : Pass
2	Toplam Migrasyon (Sulu Gıda, Gıda Benzeri A, %10 Etanol) Doldurma / Filling 100°C, 1 saat / 100°C, 1 h.* Determination of Overall Migration (Aqueous Food, Food Simulant A, Ethanol (10%))*	Tespit Edilemedi/ Not Detected mg/kg	LOQ=6 mg/kg	-	-		TS EN 1186-3	<= 60 mg/kg b	Uygun : Pass
3	Toplam Migrasyon, (Asitli Gıda, Gıda Benzeri B, % 3 Asetik Asit) Doldurma / Filling 100°C, 1 saat / 100°C, 1 h.* Determination of Overall Migration (Acidic Food, Food Simulant B, Acetic Acid (3 %))*	Tespit Edilemedi/ Not Detected mg/kg	LOQ=6 mg/kg	-	-		TS EN 1186-3	<= 60 mg/kg b	Uygun : Pass
4	Toplam Migrasyon Doldurma (Yağlı Gıdalar Yerine Geçen, Isooctane) Doldurma / Filling 60°C, 1 saat / 60°C, 1 h.* Determination of Overall Migration (Fatty Food Substituted Simulation, Isooctane)*	39,2 mg/kg	LOQ=6 mg/kg	-	-		TS EN 1186-3	<= 60 mg/kg b	Uygun : Pass

D. Gamze Atay
Numune Kabul ve Raporlama Birim Sorumlusu /
Supervisor of Sample Receiving and Reporting Section

Ecem Paşahan Omur
Ambalaj Analiz Birim Sorumlusu /
Supervisor of Food Contact Materials Analysis Section

Melek Harmancı
Mineral Analiz Birim Sorumlusu /
Supervisor of Mineral Analysis Section

09/03/2023

Tasdik Olunur / **Approved by**
Laboratuvar Müdürü / **Laboratory Manager**
Ahu Uner Akbalık



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03-23

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EXAMINATION & ANALYSIS REPORT

Rapor No/ **Report No:** FS10198554

Yayımlandığı Tarih/ **Date:** 09/03/2023

Analizler / **Analyses**

No	Analiz Adı Analysis Name	Sonuç Results	LOQ / LOD	Ölçüm Belirsizliği Uncertainty	Geri Kazanım Recovery	Cihaz Equipment	Metot Method	Limit Requirement	Değerlendirme Interpretation
5	Spesifik 23 Metal Plastik Migrasyonu(Li,Tb,Mg,Al,C a,La,Cr,Mn,Fe,Co,Ni,Cu, Zn,As,Na,K,Cd,Eu,Sb,Ba, Hg,Pb,Ga)* Specific 23 Metal Plastic Migration(Li,Tb,Mg,Al, Ca,La,Cr,Mn,Fe,Co,Ni,C u,Zn,As,Na,K,Cd,Eu,Sb, Ba,Hg,Pb,Ga)*	Sonuçlar ektedir / The results are attached	LOQ=	-	-	ICP-MS/ICP -OES	TS EN 13130-1 ISO 17294-1&2	= ektedir / as attached c	Uygun : Pass
6	Bisfenol A Migrasyonu Tayini, Sulu Gıda Simulant Cas. No: 80-05-7 FCM No: 151 Doldurma / Filling 100°C, 1 saat / 100°C, 1 h.* Determination of Bisphenol A Migration, Aqueous Food Simulant Cas. No: 80-05-7 FCM No: 151*	Tespit Edilemedi / Not Detected mg/kg	LOQ=0,01 mg/kg	-	-	HPLC	CEN/TS 13130-13 BS EN 14372 EN 14350-2	<= 0,05 mg/kg b	Uygun : Pass
7	Fitalat: Benzil Bütil Fitalat (BBP) Fitalik Asit Benzil bütil ester CAS No: 85-68-7 FCM No: 159* Butyl Benzyl Phthalate (BBP) Phthalate Acid Benzyl butyl ester CAS No: 85-68-7 FCM No: 159*	Tespit Edilemedi / Not Detected %	LOQ=0.002 %	-	-	GC/MS	BS EN 14372	<= 0,1 % b	Uygun : Pass

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Ambalaj Analiz Birim
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Mineral Analiz Birim
Sorumlusu /
**Supervisor of
Mineral Analysis
Section**

[Handwritten signatures]

09/03/2023

Tasdik Olunur / **Approved by**
Laboratuvar Müdürü / **Laboratory Manager**
Ahu Uner Akbalık

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Form GD.165 / Rev.10/03.10.2022

Bu analiz raporunu adli -idari işlemlerde ve reklam amacıyla kullanılamaz. Bu analiz raporunun hiçbir bölümü laboratuvarın yazılı izni olmadan kısmen kopyalanıp, çoğaltılamaz, tek başına veya ayrı ayrı kullanılamaz. Müşteri bilgileri ve numune bilgileri müşteri tarafından sağlanmıştır. Bilginin müşteri tarafından sağlandığı durumlar hariç, raporda verilen tüm bilgilerden laboratuvarımız sorumludur. Bu rapor (üst yazı ve ekler dahil), müşteri tarafından sağlanan numuneye ait tanımlama, talimat, bilgi, materyal ve/veya koşullar temelinde raporda belirtilen müşterinin talebine uygun olarak münhasır kullanımı için hazırlanmıştır. Analiz sonuçları yukarıda belirtilen numune için geçerlidir. İmzasız ve mühürlü raporlar geçersizdir.

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***FS10198554 ***

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İSTANBUL ÖZEL GIDA KONTROL LABORATUVARI
INTERTEK İSTANBUL PRIVATE FOOD CONTROL
LABORATORY

AB-0532-T
FS10198554
03-23

MUAYENE VE ANALİZ RAPORU
EXAMINATION & ANALYSIS REPORT

Rapor No/ **Report No:** FS10198554

Yayımlandığı Tarih/ **Date:** 09/03/2023

Analizler / **Analyses**

No	Analiz Adı Analysis Name	Sonuç Results	LOQ / LOD	Ölçüm Belirsizliği Uncertainty	Geri Kazanım Recovery	Cihaz Equipment	Metot Method	Limit Requirement	Değerlendirme Interpretation
8	Fitalat: Di Bütil Fitalat (DBP) CAS No: 84-74-2 FCM No: 157* Di-n-Butyl Phthalate (DBP) CAS No: 84-74-2 FCM No: 157*	Tespit Edilemedi / Not Detected %	LOQ=0.002 %	-	-	GC/MS	BS EN 14372	<= 0,05 % b	Uygun : Pass
9	Fitalat: Bis (2-Etilheksil) Fitalat (DEHP) CAS No: 117-81-7 FCM No: 283* Di (Ethylhexyl) Phthalate (DEHP) CAS No: 117-81-7 FCM No: 283*	0,001 %	LOQ=0.001 %	-	-	GC/MS	BS EN 14372	<= 0,1 % b	Uygun : Pass
10	Fitalat: Di-İzononil Fitalat (DINP) CAS No: 28553-12-0 FCM No: 728* Di-Iso-Nonyl Phthalate (DINP) CAS No: 28553-12-0 FCM No: 728*	Tespit Edilemedi / Not Detected %	LOQ=0.022 %	-	-	GC/MS	BS EN 14372	<= 0,1 % b	Uygun : Pass
11	Fitalat: Di-İsodesil Fitalat (DIDP) CAS No: 26761-40-0 FCM No: 729* Di-Isodecyl Phthalate (DIDP) CAS No: 26761-40-0 FCM No: 729*	Tespit Edilemedi / Not Detected %	LOQ=0.015 %	-	-	GC/MS	BS EN 14372	<= 0,1 % b	Uygun : Pass

LOQ: Ölçüm Limiti / **Limit of Quantification** LOD: Tespit Limiti / **Limit of Detection** DY:NA: Değerlendirme Yapılamadı / **Not Applicable**

(±) k=2 , % 95 güven aralığında genişletilmiş ölçüm belirsizliği, numune alma belirsizliği içermeyecek şekilde hesaplanmıştır. Aksi belirtilmediği sürece analiz değerlendirilmesinde Paylaşılan Risk Karar Kuralı (Basit Kabul Kuralı) uygulanır. Farklı karar kuralı uygulanan değerlendirmeler uygunluk notu olarak belirtilmiştir. / **The reported which is not contain sampling uncertainty value uncertainty is an expanded uncertainty calculated using a coverage factor of 2 which gives a level of confidence of approximately 95%. Unless otherwise specified, the results are evaluated according to Shared Risk Decision Rule (Simple Acceptance Rule). Other evaluation rules which are applied, indicated as Interpretation comment.**

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09/03/2023

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Laboratuvar Müdürü / **Laboratory Manager**
Ahu Uner Akbalık

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Tat(Taste) Sd: 0,0 / Koku(Odour) Sd: 0,5

Su, 100 °C, 1 saat / Water, 100 °C, 1 h.

0 = Fark edilebilir değişiklik yok. / No perceptible difference.

1 = Çok hafif fark edilebilir değişiklik var. / Just perceptible difference (still difficult to define).

2 = Zayıf değişiklik var. / Weak difference.

3 = Farkedilebilir değişiklik var. / Marked difference.

4 = Belirgin değişiklik var. / Strong difference.

^a DIN 10955, 2004

^b Türk Gıda Kodeksi Gıda ile Temas Eden Madde ve Malzemeler Tebliği 2019/44 ve Commission Regulation EU No:10/2011- EU 2020/1245 e göre değerlendirme yapılmıştır. / Analyses results were interpreted according to Turkish Food Codex Food Contact Matter and Material Communique 2019/44 and Commission Regulation EU No: 10/2011, amendment EU 2020/1245.

^c Framework Regulation (EC) 1935/2004, Türk Gıda Kodeksi Gıda ile Temas Eden Madde ve Malzemeler Tebliği 2019/44 ve Commission Regulation EU No:10/2011- EU 2020/1245 e göre değerlendirme yapılmıştır. / Analyses results were interpreted according to Framework Regulation (EC) 1935/2004, Turkish Food Codex Food Contact Matter and Material Communique 2019/44 and Commission Regulation EU No: 10/2011, amendment EU 2020/1245.

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09/03/2023

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Rapor Sonu / **End of Report**

***FS10198554 ***

AB-0532-T
FS10198554
03-23



Spesifik Metal Migrasyonu / *Specific Migration of Metals*

EU No.10/2011 sayılı Komisyon Yönetmeliğince EU 2020/1245 olarak yapılan değişiklik, ICP-MS analizleri / *As per Commission Regulation (EU) No. 10/2011 and its amendment (EU) 2020/1245, by ICP/MS analysis (1)*

I. Test Koşulları / *Test Conditions*

Rapor No/ Report No	Gıda veya Gıda Simülantı / <i>Food or Food Simulant</i>	Süre (saat) / <i>Time (hours)</i>	Sıcaklık / <i>Temperature (°C)</i>	Gıda temas yüzey alan hacim oranı / <i>Ratio of food contact surface area to volume</i>	
FS10198554	3% (w/v) asetik asit / <i>acetic acid</i>	1	100	dm ² 1.8	mL 200

II. Test Metodu / *Test Method*

TS EN 13130-1, ISO 17294-1&2

III. Test Sonuçları / *Test results:*

Element	Sonuç / <i>Result</i> (mg/kg)		Tespit Limiti / <i>Detection limit</i>	SML Limit (mg/kg) (1)	Değerlendirme / <i>Evaluation</i>
	1. Migrasyon / <i>1st migration</i>		(mg/kg)		
Baryum / <i>Barium</i> (Ba)	TED / <i>ND</i>		0.007	1	Uygun/Pass
Kobalt / <i>Cobalt</i> (Co)	TED / <i>ND</i>		0.007	0.05	Uygun/Pass
Bakır / <i>Copper</i> (Cu)	TED / <i>ND</i>		0.007	5	Uygun/Pass
Demir / <i>Iron</i> (Fe)	TED / <i>ND</i>		0.008	48	Uygun/Pass
Lityum / <i>Lithium</i> (Li)	TED / <i>ND</i>		0.008	0.6	Uygun/Pass
Mangan / <i>Manganese</i> (Mn)	TED / <i>ND</i>		0.007	0.6	Uygun/Pass
Çinko / <i>Zinc</i> (Zn)	TED / <i>ND</i>		0.010	5	Uygun/Pass
Aluminyum / <i>Aluminium</i> (Al)	TED / <i>ND</i>		0.008	1	Uygun/Pass
Nikel / <i>Nickel</i> (Ni)	TED / <i>ND</i>		0.007	0.02	Uygun/Pass
Antimon / <i>Antimony</i> (Sb)	TED / <i>ND</i>		0.005	0.04	Uygun/Pass
Arsenik / <i>Arsenic</i> (As)	TED / <i>ND</i>		0.002	ND	Uygun/Pass
Kadmiyum / <i>Cadmium</i> (Cd)	TED / <i>ND</i>		0.01	ND	Uygun/Pass
Kurşun / <i>Lead</i> (Pb)	TED / <i>ND</i>		0.01	ND	Uygun/Pass
Civa / <i>Mercury</i> (Hg)	TED / <i>ND</i>		0.01	ND	Uygun/Pass
Evropliyum / <i>Europium</i> (Eu)	TED / <i>ND</i>	Toplam / <i>Sum</i> :	0.005	toplam / sum (max.)	Uygun/Pass
Gadolinium / <i>Gadolinium</i> (Gd)	TED / <i>ND</i>		0.005	0.05	
Lantan / <i>Lanthanum</i> (La)	TED / <i>ND</i>		0.005		
Terbiyum / <i>Terbium</i> (Tb)	TED / <i>ND</i>		0.005		
Krom / <i>Chromium</i> (Cr) #	TED / <i>ND</i>		0.01	ND	Uygun/Pass
Kalsiyum / <i>Calcium</i> (Ca)	TED / <i>ND</i>		0.1	60	Uygun/Pass
Potasyum / <i>Potassium</i> (K)	TED / <i>ND</i>		0.1	60	Uygun/Pass
Magnezyum / <i>Magnesium</i> (Mg)	TED / <i>ND</i>		0.1	60	Uygun/Pass
Sodyum / <i>Sodium</i> (Na)	0.15		0.1	60	Uygun/Pass

TED / *ND* = Tespit Edilemedi / *Not detected*

= Eğer toplam krom migrasyonu sonucu 0.01 mg/kg ve 3.6 mg/kg arasında ise, krom (VI) plastik malzemelerde tespit edilemez şeklinde değerlendirilmektedir. / *When migration of total chromium is between 0.01 mg/kg and 3.6 mg/kg, chromium (VI) content in plastic shall be not detected.*

AB 2020/1245 Yönetmeliği Ek V Madde 2.1.6'ya göre, migrasyon birinci, ikinci ve üçüncü test arasında artış varsa, spesifik migrasyonun limitini geçmiyor dahi olsa sonuç uygun olmayacaktır. Sonraki testlerde kesinlikle migrasyonda azalma olmalıdır. / *According to the EU 2020/1245 Point 2.1.6 of Annex V to the Regulation requires, if the migration was to increase between the first, second and third test, the tests would not be suitable to verify compliance even in cases where the specific migration limit is not exceeded in any of them. There to the migration should be strictly decreasing in subsequent tests.*