Polinas Plastik San. ve Tic. A.Ş.

Polinas Plastik Sanayi ve Ticareti A.Ş.
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DECLARATION OF COMPLIANCE

We, Polinas Plastik Sanayi ve Ticaret A.Ş., hereby declare that **POLINAS PVOH COATED BOPP / BOPET** films comply with the following legislations,

A. EU : Regulation 1935/2004/EC and its amendment including EU 2019/1381
B. Regulation 2023/2006/EC,
C. Commission Regulation EU 10/2011 and its successive amendments including EU 2026/245
D. USA : American 21 CFR 174.5 (GMP for food contact materials and articles intended to come into contact with food)
E. FDA Section 21 CFR Ch. 177.1520 and 176.170 **(BOPP)**
F. FDA Section 21 CFR Ch. 177.1630 section (f), (g), (h)(1),(2) and (i), (j) **(BOPET)**
G. TR : Türk Gıda Kodeksi Gıda İle Temas Eden Plastik Madde Ve Malzemeler Tebliği (Tebliğ No: 2019/44 – 2023/33 – 06.05.2024 tarih ve 32538 Sayılı Resmi Gazete)

Polinas films are intended for single use only. Our films were not tested for repeated contact usages.

OVERALL MIGRATION LIMITS:

We confirm that to produce our films listed, we use only monomers, starting substances and additives listed in the Union List of Authorized Substances of 10/2011 and its successive amendments.

All polymers and additives in the composition of above-mentioned films appear in the positive list of products accepted for the fabrication of packaging materials intended for food contact, as published by the Food and Drug Administration (USA) FDA 21 CFR 177.1520(c)1.1a (Polyolefins)

Films were tested according to latest directives (EU 10/2011) in the following simulants to obtain overall migration values for all food types.

EU 10/2011:

Solution		Conditions
10% Ethyl alcohol solution	Simulant A	40°C / 10 days
3% Acetic acid solution	Simulant B	40°C / 10 days
Vegetable oil	Simulant D2	40°C / 10 days

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SPECIFIC MIGRATION LIMITS:

During the production of our PVOH COATED films, we use the following additives which are included in the Union List of Authorized Monomers and other starting substances in Annex I of EC Directive 10/2011 and its successive amendments. The theoretical calculation method was used according to EC directive of 10/2011 to find the level of specific migrations for the compounds below.

FOR BOPP

PM Ref- FCM	SML (mg/kg) /SML T	Measured content (mg/kg)	Calculated amount (mg/kg)
19-39090	1,2	<0,5	
20-39120	1,2	<0,5	
661-95360	5		$<10^{-2}$
496-71680			$<10^{-4}$
671-74240			$<10^{-4}$

For BOPET

FCM&PM number	*Chemical Name*	SML/SML (T)	*Available at chemical*
263-13326	Diethyleneglycol	30 mg/kg	Coated/uncoated
227-16990	Ethyleneglycol		Coated/uncoated
785-24910	Terephthalic acid	7,5 mg/kg	Coated/uncoated
291-19150	Isophtalic acid	5 mg/kg	Coated/uncoated
288-24970	Dimethyl terephthalate (DMT)	60 mg/kg	Coated/uncoated
484-13395	2,2-bis(hydroxymethyl) propionic acid	0.05 mg/kg	Coated
254-13720	1.4 Butanediol	5 mg/kg	Coated
361-18700	1.6-Hexandiol	0,05 mg/kg	Coated
398-35760	Antimony trioxide	0,04 mg/kg	Coated/uncoated
475-19110	1-isocyanato-3-isocyanatomethyl-3,5,5-trimethylcyclohexane	1 mg/kg	Coated

Surface Volume ratio = 6 dm^2/kg food

DUAL USE ADDITIVES:

Our films **may contain** following food additives. We confirm that the migration of those dual use additives are in the limits of our overall migration limits.

BOPP based

Chemical Name	E Number
Silicon dioxide	E551
Magnesium salts of fatty acids	E470b
Polyvinyl alcohol	E1203

BOPET Based

Chemical Name	E Number
Silicon dioxide	E551
Polyvinyl alcohol	E1203

HEAVY METALS:

The raw materials used in the production of said PVOH COATED films, namely: PP homopolymers, PP copolymers, PP terpolymers, PET and masterbatches based on the above-mentioned resins do not contain heavy metals such as cadmium, hexavalent chromium, lead, antimony, nickel, tin, arsenic and mercury, as declared by the suppliers of the above-mentioned raw materials.

Neither the said heavy metals nor their compounds are intentionally added during the production of the said OPP films, nor they are used, directly or indirectly, in the production process itself.

Any incidental amount of heavy metals contained does not exceed 100 ppm (by weight). For these reasons, we hereby declare that the said PVOH COATED films comply with the following regulations:

a. USA CONEG REGULATION
b. 2009/48/EC (Safety of toys) and its amendment EU 2025/2509
c. Regulation 2025/40 on packaging and packaging waste amending Regulation EU 2019/1020 and Directive EU 2019/904, and repealing Directive 94/62/EC
d. ROHS Regulation (EU 2011/65) and its amendment EU 2023/1526
e. WEEE Regulation (EU 2012/19)

SPECIFIC MIGRATION OF HEAVY METALS:

Specific migration analysis of *aluminum, ammonium, antimony, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, europium, iron, gadolinium, mercury, lanthanum, lead, lithium, magnesium, manganese, nickel, potassium, sodium, terbium, zinc* in the table 1 of Annex II of EC Directive 2020/1245 were tested in the simulant of 3% acetic acid solution (Simulant B, 10 days @ 60 °C). Test results comply with the table 1 of Annex II. Results are available upon request.

SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINES:

Specific migration of 22 Primary aromatic amines mentioned in 2020/1245 were tested in the simulant of 3% acetic acid solution (Simulant B, 10 days @ 60 °C). Test results comply with the relevant regulation. Results are available upon request.

GMO – DIOXINE – RESTRICTIONS-ALLERGENS – RECYCLED RAW MATERIAL USAGE-MICROPLASTICS, IRRADIATION:

According to the information received from our suppliers the additives and PP homopolymers, terpolymers and coating materials used to produce said films do not contain any genetically modified organisms (GMO)

EC 2003/11 (restrictions on the marketing and use of certain dangerous substances and preparations)**:** please refer absence list given below.

EC 1895/2005 (restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food): please refer absence list given below.

EU 252/2012 (related with dioxine and dioxine related PCB's in the food chain) is not applicable to our products.

Our films do not contain any allergic substances and we hereby confirm that our film complies with **EU 1169/2011** and its amendments.

Polinas films are produced only from virgin resin and do not contain post-consumer recycled components, and no obligation exists under the **EU 2022/1616.**

Our films do not contain nanoparticles, so **EU 2011/696** is inapplicable.

Our films do not contain Active and intelligent additives, so **EC/450/2009** is inapplicable.

Our films do not contain biocides, so **EU 528/2012** is inapplicable.

Our films do not contain Bisphenol A, and comply with Commission Regulation (EU) **2026/250** which is corrected regulation of **EU 2024/3190.**

All our raw materials are free from **microplastic** and we do not intentionally add it during the production process of our films. Hence our films are in compliance with **Entry 78 of Annex XVII REACH,** as introduced by **Commission Regulation (EU) 2023/2055**. Please note that this regulation does not cover microplastics coming from the fragmentation of our films in the environment by time .

We confirm that no Irradiation (ionizing, radiofrequency, ultraviolet, pulsed light radiation) is not applied to any material produced at Polinas

RECYCLING:

According to RECYCLASS, PVOH coated films up to 1 gsm can be recyclable. Beyond this is considered as unrecyclable. Polinas films contain 0,8 gms PVOH and can be considered as recyclable.

GENOTOXICITY:

In accordance with the requirements of Regulation 10/2011/EC Annex IV, part 6, OUR BOPP films do not contain genotoxic substances which would migrate from a final material at a level exceeding 0.15 ppb in food or food simulant.

ABSENCE OF SUBSTANCES:

The raw materials used in the production of said PVOH COATED films do not contain the following substances, as declared by the relevant raw materials suppliers:

*Latex**, Bisphenol A,S,F,AP,AF,B,BP,C,E,G,M,P,PH,TMC,Z**, BHT, BHA, Polychlorinated biphenyls, 2-Ethylhexyl Acrylate, Polychlorinated napthalates, Chlorinated Paraffins, Polybrominated biphenyls, Polybrominated diphenylethers, Organic Tin Compounds (tributyl or triphenyl tin), Asbestos, Azo Compounds, Formaldehyde, Mirex (perchloredecone), Alkyl Phenols – Octyl & Nonyl, Alkyl Phenol Ethoxylates, , CFC, HCFC, Triclosan, PVC, PVDC, Acrylamide, Dioxin etc, BADGE, BFGDE, NOGE, Melamine, Ammeline, TXIB , PCDD (polychloride dibenzo-p-dioxin), PCDF(polychloride dibenzo-p- furan), PCB (Polychloride biphenyl), **PAH (Polycyclic aromatic hydrocarbon)**, SCCP (Chlorinated paraffin short chain), HCH (Hexachlorocyclohexane), Hexabromocyclododecane (HBCD), PCP (Pentachlorophenol), Semicarbazide, Adipates, ESBO (Epoxidised Soybean Oil), Cyanuric acid, Dimethylfumarate, Isocyanates, Titanium Acetyl Acetonate (TAA), 2-4 pentandione, pentabromodiphenyl ether, octabromo-diphenyl ether, halogenated compounds, conflict minerals (gold, wolframite, casserite, columbite-tantalite, and their derivative metals, which include tin, tungsten, and tantalum), active and intelligent substances, ozone depleting substances, PFOA (perfluorooctanoic acid), PFOS (perfluorooctane sulfonate), nano particles, Perfluoroalkyl and Polyfluoroalkyl substances (PFAS), Per- and*

Polyfluorinated Surfactants (PFS), - Perfluorooctanoic acid (PFOA), its salts and PFOA-related substances, Perfluorooctane sulfonic acid (PFOS), its salts and PFOS-related compounds, Undecafluorohexanoic acid (PFHxA), its salts and PFHxA-related substances, Polytetrafluoroethylene (PTFE, CAS No. 9002-84-0), Perfluorononanoic acid (PFNA), Perfluorohexane sulfonic acid (PFHxS), MOAH/MOSH/POSH, melamine, glycol ethers, polycarbonate, nitrosamine, mancozeb, cholecalciferol, POPs (Persistent Organic Pollutants), Radioactive Substances,

Neither the said substances are intentionally added during the production of the said OPP films, nor they are used, directly or indirectly, in the production process itself.

We also would like to emphasize that we did not tested the films for such substances.

ENDOCRINE DISRUPTORS

We, Polinas Plastik Sanayi ve Ticareti A.S., hereby declare that the raw materials used in the production of the PVOH COATED films do not contain substances given in SINLIST substances (can be reached https://sinlist.chemsec.org/endocrine-disruptors/) as declared by the relevant raw material suppliers.

Our films do not contain the below mentioned chemicals as declared by the relevant raw material suppliers: Substances identified as endocrine disruptors at EU level and included in the EU Endocrine disruptor list (List I) [https://edlists.org/the-ed-lists/list-i-substances-identified-as-endocrine-disruptors-by-the-eu] . For BOPP films DBP and DIBP may be present. For further information please look below given PHTHALATES section.

PHTHALATES;

For BOPP Based Films:

We hereby state that no phthalates of whichever chemical form are intentionally added as modifiers, plasticizers additives, or processing aids to BOPP films produced by Polinas.

In fact, Polypropylene films and BOPP in particular, do not need phthalates as modifier, plasticizer, additive, or processing aid. Phthalates in general, are peculiar modifiers, plasticizers, additives, or processing aids of plastics materials totally different from polypropylene. Even in the case of such (different) plastics materials, the food contact legislation allows anyhow the use of certain phthalates in food contact, stating in certain cases SML for their use.

During the production of catalysts for PP, Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP) or Bis(2-ethylhexyl) phthalate (DEHP) are used to improve the efficiency of the catalyst and those are essential for the control of isotacticity of polymer and therefore has major impact on mechanical properties of the final product.

If completely surviving the polymerization process, the used phthalates could theoretically be present in concentrations of about 1 mg/kg in the final pellets. However, test results have shown phthalate values not exceeding 0,15 mg/kg PP and often even below the threshold of the analytical method of 0,01 mg//kg PP.

The potential residual traces of phthalates in polypropylenes are decades below the limits defined by REACH (0,1 wt%), thus no commercial polypropylene is subject to any restriction or ban in that respect.

The sunset date for these phthalates in 2015 does not prohibit the import or use of any products containing them in concentrations below 0.1 wt%.

As a reference, one of our films has been tested for DBP and DEHP in simulants A, B and D2 at 60C, 10 days. Results for those phthalates shown that it is well below the measurable limit of 0,1 mg/kg.

The following phthalates are absent in our film.
Di(2-ethylhexyl) phthalate, n-butyl benzyl phthalate Octyl & Nonyl phthalates, Butyl Benzyl Phthalate, Diisodecylphthalate, Diisononylphthalate, Diisooctylphthalate, Dioctyl phthalate,

For BOPET Based Films:

We hereby state that no phthalates of whichever chemical form are intentionally added as modifiers, plasticizers additives, or processing aids to BOPET films produced by Polinas.

Chemical List of Proposition 65:

FOR BOPP : We certify that during the production of our films, we do not use or intentionally incorporate into them, any of the chemicals as restricted by Chemical Lists of Proposition 65 of the State of California and subsequent amendments. Complete list can be downloaded from,

FOR BOPET : We confirm that our BOPET films are manufactured with raw materials which do not contain purposely the chemicals mentioned on the California Proposition 65 list, except Antimony trioxide (CAS-No. 1309-64-4, PM Ref Number: 35760) and Ethylene Glycol (CAS –No. 107-21-1).

Polycondensation catalysis using antimony-based compounds represents a general technology for polyester production for more than 50 years. The substance is entirely incorporated in the polymer matrix in catalytic amounts and the extractable Sb amount is well below the Oeko-Tex Class 1 limit of 30 ppm.

Information reported above are based on technical knowledge of our products of our raw materials. Complete list can be downloaded from;

https://oehha.ca.gov/sites/default/files/media/downloads/proposition-65//p65chemicalslist.pdf

NIAS:

Non-intentionally added substances (NIAS) is that the substances are not added intentionally during the production. They may be present as impurites, reaction intermediates, decomposition or reaction products.

The legislators/law makers like FDA and EC / European Food Safety Authority (EFSA) do not specify the test method for NIAS. It means there is no ‘STANDARD TEST METHOD’ for NIAS risk assesment.

Research Institutes like Fraunhofer, Rapra and the laboratories like CSI, Campden, SGS have no specified test method for NIAS risk assessment. Film or injection grade homopolymer / terpolymer producers in the world (polypropylene, polyethylene, polyester, polystyrene, etc.) have no risk assessment test method.

Even the NIAS subject is studied for almost 15 years, the technique cannot be defined by neither legislators/law makers nor the research institutes/laboratories. To identify NIAS substances, all substances in the film are extracted by using a solvent. Then the solvent is analyzed by instrumental method to define the substances.

Because of there is no standard test method and solvent, different solvents and test methods are used to identify the NIAS substances. Depends on these differences, the results are different for each technique.

For all these reasons, NIAS still is a difficult subject.

We, Polinas Plastik Sanayii ve Ticaret A.S., make two different laboratories do risk assessment. NIAS substances in some of Polinas BOPP and BOPET Films have been identified by using qualitative and quantitative test method. Some of the substances are listed on EC 10/2011 and some of them are not.

The amount of NIAS substances which is not seen in EU 10/2011 list, that may be accepted as 'non-authorized' or 'non-listed', in the said OPP and BOPET films. The migration amount may be calculated by using worst case scenario and should be < 0,01 mg to 1 kg food (The detection limit for non-authorized or non-listed substances acc to EC 10/2011).

We declare that NIAS substances in Polinas BOPP and BOPET Films do not exceed the limit value. The said films are also analyzed for the toxicological evaluation by means of Cramer Classifications. The films have no substance which is classified in Cramer Toxigology Class.

REACH:

Under the REACH regulation, all the products of POLINAS (plastics films) are manufactured items obtained from polymers, and so exempted from REACH registration. (including February 16th update)

POLINAS have taken all the necessary steps to ensure that the chemical components from which POLINAS' products are obtained fulfill the obligation of the REACH registration, with specific requests of declarations from POLINAS' raw material suppliers.

Raw material suppliers to POLINAS are:

· Producers of Polymers
· Producers of Polymer Masterbatches (admixtures of Polymers and other components)

Polymers are exempted from the provisions of registration of Title II of REACH (Article 2(9)).

Polymer Masterbatches are considered, in regulatory terms, "preparations", and are exempted from the provisions of registration.

Nevertheless, the obligation of registration of the individual chemical substances used by the raw material suppliers to POLINAS (Producers of Polymers and Producers of Polymer Masterbatches) goes down in the supply chain to the obliged parties that supply the base chemicals and monomers (namely; propylene monomer) to the Producers of Polymers and Producers of Polymer Masterbatches that are the present suppliers to POLINAS.

For UK REACH, Polinas' BOPP&BOPET based PVOH coated films are considered as "article" and exempt from UK REACH registrations.

SVHC:

Our PVOH COATED films do not contain in their composition more than 0,1% (w/w) concentration of the substances listed in SVHC (substances very high concern), which is updated regularly by ECHA. New list is updated regularly, if necessary, on our web site.

HALAL/KOSHER STATUS:

For BOPP Based Films:

Polinas BOPP films are made of Polypropylene and their co and/or terpolymers. We also add some additives to improve some of the performance parameters of the films like slip, antistatic, antiblocking behavior.

According to the information received from PP suppliers, almost all of them are declaring that their products are not certified as Halal, even though they do not use any animal derived product or ethyl alcohol during their production. Some of the additives we use as masterbatch form may contain animal derived product. Our masterbacth suppliers cannot distinguish and trace the type of the animal whether it is pig, cow or sheep etc. For this reason, Polinas could not get any Halal/Kosher certificate from its suppliers yet.

We declare that neither the Ethyl Alcohol and any animal derivative are intentionally added during the production of the films, nor they are used, directly or indirectly, in the production process itself.

For BOPET Based Films:

According to the information received from our raw material suppliers, raw material used in BOPET film production do not contain any animal derived substances. For this reason, it can be considered as Halal/Kosher. However, Polinas BOPET plant has not been certified by any external authority for Halal/Kosher and we do not provide any certificate.

We do not recommend our films to be used for pharmaceutical applications.

DISCLAIMER

When our films are converted, since conversion activity is out of Polinas's control, it is our customers responsibility to assure regulatory compliance, recyclability and suitability for food contact. Polinas does not give any warranty/guaranty and do not accept responsibility for converted products about food contact compliance.

Polinas Plastik San. ve Tic. A.Ş.

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