



Polinas

Polinas Plastik San. ve Tic. A.Ş.

Date: 26/11/2018

REGULATORY COMPLIANCE CERTIFICATE

We, Polinas Plastik Sanayii ve Ticareti A.S., hereby declare that the cast barrier films of the types:

POLIBARR Y(XX) C(0/1), Y(XX) A(0/1), Y(XX) B(0/1), Y(XX) D(0/1)

comply with the following legislations,

- Commission Regulation 10/2011 and its successive amendments up to and including 2018/79 and 2018/213 and 2018/831**
- Regulation 1935/2004/EC**
- Regulation 2023/2006/EC, American 21 CFR 174.5 (GMP for food contact materials and articles intended to come into contact with food)**
- Türk Gıda Kodeksi Gıda İle Temas Eden Plastik Madde Ve Malzemeler Tebliği (Tebliğ No: 2013/34 – 35 - 2016/10 ve 5 Nisan 2018 tarihli 30382 Sayılı Resmi Gazete)**

OVERALL MIGRATION LIMITS

We confirm that for the production of 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 up to and including 2018/79 and 2018/213 and 2018/831.

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

EC 10/2011

10% Ethyl alcohol solution	Simulant A	10 days @ 60 °C
3% acetic acid solution	Simulant B	10 days @ 60 °C
Veg. oil containing less than 1% unsaponified matter	Simulant D2	10 days @ 60 °C

SPECIFIC MIGRATION LIMITS

During the production of our cast barrier films, we use 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 up to and including 2018/79 and 2018/213 and 2018/831. Theoretical calculation method was used according to latest EC directive of 10/2011 in order to find the level of specific migrations for the compounds below.

PM Ref Number	SML
68320	6,0 mg/kg
39090	1,2 mg/kg

DUAL USE ADDITIVES :

Our films may contain following food additives

Chemical Name	Cas or PM Ref Number	E Number
Synthetic silica	CAS no 7631-86-9	E551
Mono/diglycerides of fatty acids	PM/Ref: 56486	E471



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Talc	CAS no	E553
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HEAVY METALS :

The raw materials used in the production of said cast barrier films, namely: LDPE/LLDPE, Tie layer, Polyamide 6 and EVOH based on the above mentioned resins do not contain heavy metals such as cadmium, hexavalent chromium, lead, antimony, nickel, tin, arsenic, PBB, PBDE 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 cast barrier 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 cast barrier films comply with the following regulations:

a. USA CONEG REGULATION

b. 2009/48/EC (Safety of toys)

c. Directive 94/62/EC on packaging and packaging waste is amended by Directive 2004/12/EC and 2018/852.

d. ROHS Regulation (2011/65/EC)

e. WEEE Regulation (2002/96/EC)

SPECIFIC MIGRATION OF HEAVY METALS :

Specific migration analysis of Barium, Cobalt, Copper, Iron, Lithium, Manganese and Zinc were analyzed according to Annex II of EC Directive 10/2011. Tests were performed in the simulant of 3% acetic acid solution (Simulant B, 10 days @ 60 °C).

Metals	SML (food or food simulant)
Barium	1,0 mg/kg
Cobalt	0,05 mg/kg
Copper	5,0 mg/kg
Iron	48,0 mg/kg
Lithium	0,6 mg/kg
Manganese	0,6 mg/kg
Zinc	5,0 mg/kg
Aluminum	1,0 mg/kg

GMO – DIOXINE – RESTRICTIONS-ALLERGENS – RECYCLED RAW MATERIAL USAGE:

According to the information received from our suppliers PE, EVOH, Tie layer and PA and its masterbatches used for the production of said films do not contain any genetically modified organisms (GMO)

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

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

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



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Our films do not contain any allergic substances and we hereby confirm that our film complies with **2003/89 EC**.

Polinas films are produced only from virgin resin and do not contain post-consumer recycled components, and no obligation exists under the **282/2008/EC**

RECYCLING :

Cast barrier films can be recycled.

ABSENCE OF SUBSTANCES :

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

Latex, Bisphenol A,S,F, BHT, BHA, Polychlorinated biphenyls, 2-Ethylhexyl Acrylate, Polychlorinated naphthalates, 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), HAP (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, cassiterite, columbite-tantalite, and their derivative metals, which include tin, tungsten, and tantalum), active and intelligent substances, endocrine disruptors, ozone depleting substances, PFOA, PFOS, nano particles, MOAH/MOSH

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.

Chemical List of Proposition 65:

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;

<https://oehha.ca.gov/media/downloads/proposition-65//p65list052518.pdf>

NIAS :

Non-Intentionally added substances (NIAS) are under ongoing risk assessment using recognized method.

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.



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Raw material suppliers to POLINAS are:

- Producers of Polymers
- Producers of Polymer Masterbatches (admixture 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 to the Producers of Polymers and Producers of Polymer Masterbatches that are the present suppliers to POLINAS.

SVHC :

Our BOPP, BOPET, CPP, Coated and Barrier 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.