



10/2011 EC - Statement of Compliance

Manufacturer: Arjobex Limited
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United Kingdom

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Product: Standard 2 Side Coated Polyart

Product Description

A biaxial orientated film composed primarily of High Density Polyethylene, Calcium Carbonate, and Titanium Dioxide.

The monomers, polymers and additives used to manufacture this product are listed in EU Regulation 10/2011.

The product and materials used in its manufacture are also compliant within the framework defined by the Regulation 1935/2004/EC on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC.

The above product has been independently tested for overall migration with the simulants and test conditions listed below as defined in EC Directive 97/48/EC and EU Regulation 10/2011.

The product was exposed to each simulant and test condition three times to comply with repeat use requirements as defined in EU Regulation 10/2011.



Direct Food Contact Testing

Direct food contact testing was carried out by Intertek, an external UKAS accredited laboratory in November 2016, in accordance to the test methods for the “Examination of Consumer Goods” corresponding to the directives B 80.30, 1 to 3 (EG) of the Official Collection of Analytical Methods according to § 64 LFGB and according to the rules of the series of standards EN1186 and CEN/TS 14234 “Materials and articles in contact with foodstuffs – Plastics”.

The testing is also in compliance with EU directives 10/2011, EC 1935/2004 and the product is manufactured in compliance with EC 2023/2006

Overall Migration Limit Test Results

Simulant	Test Conditions	Migration
Acetic Acid (3% w/w)	10 days 40°C	248 mg/dm ²
Ethanol (10% v/v)	10 days 40°C	8.6 mg/dm ²
Olive Oil	10 days 40°C	n/a*
Ethanol (95% v/v)	10 days 40°C	7.8 mg/dm ²
Isooctane	2 days 20°C	4.7 mg/dm ²

* The sample absorbed the Olive oil into it. Therefore it was not possible to get a reliable measurement. Iso-octane is an acceptable substitute for olive oil as per EC 10/2011.

This product should **not** be used with acidic foodstuffs, as it exceeds the global migration limit of 10 mg/dm².

Monomer Analysis Results

Constituent monomers and additives used to manufacture this product were found to have the have the following migration values;

Monomer	Result	CAS Number
Methylacrylate	Not Determinable < 0.2 mg/dm ²	96-33-3
Ethylacrylate	Not Determinable < 0.2 mg/dm ²	140-88-5
Butylacrylate	Not Determinable < 0.2 mg/dm ²	141-32-2
2-Ethylhexylacrylate	Not Determinable < 0.05 mg/dm ²	103-11-7
Methylmethacrylate	Not Determinable < 0.2 mg/dm ²	80-62-6
Butylmethacrylate	Not Determinable < 0.2 mg/dm ²	97-88-1
Isobutylmethacrylate	Not Determinable < 0.2 mg/dm ²	97-86-9
Styrene	Not Determinable < 0.2 mg/dm ²	100-42-5
Alpha methyl styrene	Not Determinable < 0.05 mg/dm ²	98-83-9
Acrylic Acid	Not Determinable < 0.01 mg/dm ²	79-10-7

The following compounds were also detected during the analysis of Standard 2 Side Coated Polyart;

Compound Name	Result	CAS Number
Di-tert-butylphenol	0.003 mg/dm ²	96-76-4
Cyclic compounds derived from Abietic compounds (sum)	0.21 mg/dm ²	94581-17-6
Sesquiterpene	0.015 mg/dm ²	-
Styrene Oligomers (sum)	0.09 mg/dm ²	9003-53-6
Further Hydrocarbons (sum)	0.033 mg/dm ²	-

Specific Migration Limits

Constituent monomers and additives used to manufacture this product have the following specific migration requirements:

- N,N-Bis (2-hydroxy-ethyl) alkyl (C8-C18) is an anti-static additive used in the manufacture of the base film and has a specific migration limit of 1.2 mg/kg
- Butyl acrylate is present from the latex binders used in the coating applied to the base film and has a specific migration limit of 6 mg/kg.
- Acrylic acid is present from the latex binders used in the coating applied to the base film and has a specific migration limit of 6 mg/kg.

All 3 of the above substances were not detected during the migration testing.



Dual use Additives

The following materials used in the manufacture of Standard 2 side Coated Polyart are classified as dual use additives;

Calcium Carbonate	E170	CAS 1317-65-3
Titanium Dioxide	E171	CAS 13463-67-7

There are no specific migration limits for either of these materials.

The composition of the Standard 2 Side Coated Polyart also complies with all purity criteria in accordance with Directives 95/31/EC, 95/45/EC and 96/77/EC.

Standard 2 Side Coated Polyart is manufactured according to Commission Regulation (EC) No 2023/2006 of 22nd December 2006 on good manufacturing practice for materials and articles intended to come into contact with food.

Therefore, based on the testing carried out at Intertek Standard 2 Side Coated Polyart fully complies with the regulations indicated and may stand in direct contact with dry, moist, non-acidic and fatty foodstuffs.

The product Standard 2 Side Coated Polyart can be used in direct contact with dry, aqueous, non-acidic and fatty foodstuffs for the following durations;

For refrigeration or freezer conditions (5°C or lower) storage time is unlimited

Storage time at ambient temperatures (20°C-40°C) is limited to 30 days.

Signed:

Dr Mark Grimbley
Quality & Technical Manager

9th March 2018