



Inliner specifications

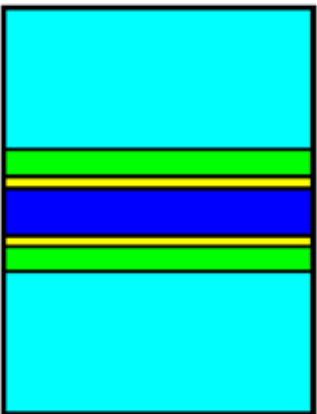
Bag-in-Tank principle

7 layer Coex Foil

Co-extruded Foil with EVOH-Barrier and double sided PE layer, allows the foil to be very strong and handle a lot of pressure.



Außenlage 60µ



LLDPE

Haftvermittler
PA
EVOH
PA
Haftvermittler

LLDPE

CIP Unit

What is an EVOH Barrier?

EVOH, (Ethylene vinyl alcohol), is a synthetic polymer which is a copolymer of ethylene and vinyl alcohol.

What is EVOH used for?

EVOH has excellent barrier properties against, for example, oxygen, gases, solvents and oils. This is why it's often used in packaging for, for example: food products, (natural) cosmetics, industrial products and pharmaceutical products, in order to extend their storage life, to combat any possible odours and to stop the packaging from deforming.

General Properties:

Thickness: 54 - 66 µ, DIN 53370

Density: 0,052 - 0,063 g/cm², ISO 2286-2

Oxygen permeability: max. 2,6 cm³/m²xdxbar, DIN 53380-3

Water vapor permeability: max. 2 g/m²xd, ISO 15106-2/-3

Temperature resistance: -50 to 90 °C

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Foil material - Interior layer

Germany: LFBG §§30 & 31; BfR-Recommendation III for Polyethylen

Europe: EU 1935/2004/EC; 2002/72/EC incl. Modifications 2004/1/EC, 2004/19/EC, 2007/19/EC; Heavy metals according to EU Directive- 94/62, EC 2023/2006

USA: FDA §21 CFR 177.1520

Listing of the used monomers/additives with specific migration limit:

Monomer/Additive	CAS-Nr.	SML (mg/kg)
Octen - 1	000111 - 66 - 0	15
Tris (nonylphenyl)-phosphit	026523 - 78 - 4	30
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionat	002082 - 79 - 3	6
Vinyliden fluoride	000075 - 38 - 7	5
Hexafluoropropylen	000116 - 15 - 4	0.01
Stearic acid, zinc salt	000557 - 05 - 1	25

Foil material - Exterior layer

Germany: LFBG; relevant BfR-Recommendations, Part A; Packaging Regulation, lately changed by the 4th Regulation dated 30.12.2005

Europe: EU 1935/2004/EC; 2002/72/EC incl. Modifications 2004/1/EC, 2004/19/EC, 2007/19/EC; Heavy metals according to EU Directive- 94/62, EC 2023/2006

Migration examinations

Migration examinations are being implemented according to the Directive 82/711/EWG and 85/572/EWG. The Migration border values are complied with according to the following tests:
(6 dm² Foil / 1 kg foodstuffs)

Simulants	Foodstuff contact regulations	Tests
D (fat/oil)	Fat / >24 h, ≤ 40°C	10 d / 40°C
A (watery)	Watery (pH > 4,5) / >24 h, ≤ 40°C	10 d / 40°C
B (acid)	Watery (pH > 4,5) / >24 h, ≤ 40°C	10 d / 40°C

The LLDPE film must have the following minimum requirements

Permeation:

Steam	At 23°C/85% r.F.	1,3g/m ² /24h/bar
Oxygen	At 23°C/0% r.F.	2000 cm ³ /m ² /24h/bar
Oxygen	At 23°C/75% r.F.	2700 cm ³ /m ² /24h/bar
Carbon Dioxide	At 23°C/0% r.F.	9300 cm ³ /m ² /24h/bar

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