

## CERTIFICATE OF FOOD LAW COMPLIANCE

Product: Vacuum pouch PA/PE, Vacuum pouch embossed

We hereby declare that the materials called **Vacuum pouch PA/PE** and **Vacuum pouches embossed** are in compliance with requirements of regulation 10/2011/EC and subsequent modifications and updates thereto (in the terms described by art. 22 „Transitional Provisions“ and art. 23 „Entry into force and application“), and also with Regulation 1935/2004/EC and subsequent modifications and updates thereto; since BADGE, BFDGE and NOGE are used or intentionally added, material complies with regulation 1895/2005/CE. The above mentioned materials are produces with the following components:

- Polyamide, polyethylene (layer into contact with food) and Nitrocellulose/ polyurethane based inks (if printed)

Food contact conformity of materials was approved by:

- migration tests performed in compliance with Directives 82/711/EEC, 85/572/EEC, 97/48/EEC and subsequent updates
- worst case calculations (assuming surface volume ratio of 6 dm<sup>2</sup> film per 1 kg food)

The specific migration limits and overall migration limits are respected with the following simulants:

Simulant A (10% Ethanol solution) ,Simulant B (3% acetic acid solution), Simulant D2 (Oil)

and so material is suitable to get into contact to any kind of foodstuff at room temperature or below for prolonged periods (>6 months), up to a temperature of 70°C for ≤ 2 h, up to a temperature of 100°C for ≤ 15 minutes.

Although all raw materials used have been selected with low sensory impact, we recommend the user to test organoleptic suitability of the above mentioned materials to the specific restrictions are the following:

CAS Number	Substance	Restrictions
105-60-2	Caprolactam	SML = 15mg/KG
108-05-4	acetic acid; vinyl ester	SML = 12mg/KG
128-37-0	2,6-di-tert-butyl-p-cresol (BHT)	SML = 3mg/KG
2082-79-3	Octadecyl 3- (3,5-di-tert-butyl-4-hydroxyphenyl) propionate	SML = 6mg/KG
592-41-6	1 - Hexene	SML = 3mg/KG
77-90-7	Tri-n-butyl acetyl citrate* *only if printed	SML = 60mg/KG

On the basis of declarations from our own suppliers and our current acknowledge, we hereby declare that the material contains the following substances regulated by regulation 1333/08/EC and 1334/08/EC (otherwise called „Dual Use“ additives):

EU number	Substance
/	Polyethylene glycol (CAS 25322-68-3)
accordo	Substance under no disclosure agreement
E171	Titanium Dioxide*/**
E173	Aluminium Powder*
E180	Lithol Rubine BK* (Pigment Red 57:1)
E321	2,6-di-tert-butyl-p-cresol (BHT)
E553b	Talc
E558	Bentonite*

According to experimental data and/or theoretical calculations, these substances are in accordance with the provisions of Reg 10/2011/EC, Art. 11 paragraph 3. The end user has the duty to inform about possible restrictions on additives or aromas used in the production of foodstuff packed. Migration primary aromatic amines complies with Annex II of regulation 10/2011/EC.

The above mentioned materials comply with the requirements of Directive 94/62/EC (amended by Directive 2004/12/EC), including essential requirements, as defined in Art. 9 and Annex II, for the following reason:

Prevention by source reduction - Minimisation of dangerous substances or preparations - EN13428 (July 2004 Edition).

The total heavy metal content is far below 100 ppm and materials do not contain substances classified as dangerous for the environment (Directive 1999/45/EC).

Prevention by source reduction - Minimisation of packing weight/ volume - EN13428 (July 2004 Edition).

We, depending on final applications and information received from customers/users, have been designed to ensure that the weight and/or volume of their constituent is at the minimum commensurate with the maintenance of packing functionality, safety, hygiene and acceptability to user of packed product.

Recoverability in the form of energy - EN13431 (July 2004 Edition).

Materials after use can be incinerated supplying a positive calorific gain, so that they contribute to an energy recovery process.

The document is valid by the date reported above and it will be renewed when substantial changes in the composition or production occur that bring changes in the migration from the materials or articles. It will be also renewed when new regulations or new scientific data becomes available and make a new check of conformity necessary. The traceability of material is guaranteed by batch management in each phase of production or trading. Each product reports a label with indication of production batch in compliance with regulation 1935/2004/CE.

the producer trades its material through an efficient, documented and certified internal managing system of quality control in conformity with UNI EN ISO 9001:2008 standard and an hygiene managing system of control in compliance to UNI EN 15593:2008. These standards, together with the respect of the Good Manufacturing Practices (GMP), guarantees compliance with Regulation 2023/2006/CE.

the producer guarantees the properties and suitability of its materials for at least one year from the date of delivery provides they are kept under ideal storage conditions, i.e. in a clean, dry place where they are not exposed to heat or sunlight, if possible at temperatures between 15 and 25 °C and at relative humidity between 50 and 75%. The user of this material should satisfy himself as to the suitability of our products for the intended application and the present national regulatory regime. Therefore, we disclaim any liability for damages arising from the non-suitability of our products for the effected application. This guarantee of suitability for contact with foods becomes null and void if the materials are used in conditions or with foodstuffs other than those specified above, if other substances are added and/or processing performed that may modify the properties of the said materials. Such uses exonerate the producer from all liability and transfer to the end user all responsibility for verifying the suitability of the materials for use in the new conditions.

Optimax Packaging GmbH & Co. KG is a trading partner of the manufacturer. The producer's original certificates are available and can be reviewed on actually entitled interest.



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Optimax Packaging GmbH & Co. KG ist Handelspartner des Herstellers. Die Belege liegen gleichlautend im Original vor und können bei berechtigtem Interesse eingesehen werden.

**Product:** Pouch PA/PE - Pouch PA/PE Blue - Pouch PA/PE White - Pouch PA-PE Black

**Description:** Vacuum pouch obtained from flexible coextruded film

**Structure:** polyamide - polyethylene PA/PE

E-CD01  
Ed.03 - Rev.01  
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TECHNICAL DATA:													
Properties	Method	Unit	Tolerances	70	80	90	100	100	120	130	145	170	200
Thickness	DIN 53370	µm	± 10%	70	80	90	100	100	120	130	145	170	200
Weight per unit area	DIN 53104	g/m²	± 10%	63,08	77,31	81,94	96,42	98,55	114,84	124,06	135,41	153,83	194,96
tensile stress at max. load	DIN ISO 527-1/-3	N / 15mm Longitudinal Trasversal	/	≥ 45 ≥ 30	≥ 45 ≥ 35	≥ 50 ≥ 35	≥ 60 ≥ 45	≥ 70 ≥ 60	≥ 65 ≥ 50	≥ 65 ≥ 50	≥ 80 ≥ 65	≥ 85 ≥ 65	≥ 95 ≥ 75
tensile stress at break	DIN ISO 527-1/-3	in % Longitudinal Trasversal	/	≥ 200 ≥ 250	≥ 200 ≥ 250	≥ 200 ≥ 250	≥ 200 ≥ 300	≥ 250 ≥ 300	≥ 250 ≥ 300	≥ 250 ≥ 300	≥ 250 ≥ 350	≥ 250 ≥ 350	≥ 300 ≥ 350
Seal strength	VF	N / 15mm	/	> 20	> 25	> 27,5	> 30	> 30	> 35	> 37,5	> 35	> 40	> 50
Water vapour Permeability	Calculated (theoretical values)	g/m².24h	/	< 5	< 5	< 5	< 4	< 3,5	< 4	< 4	< 3,5	< 3,5	< 3
Oxygen permeability	ISO 15105-2 DIN 53380-3 ASTM D3985	cc/m².24h.atm 50 % RH - 23 ± 2 °C	/	< 70	< 65	< 65	< 50	< 40	< 45	< 45	< 35	< 35	< 20
Nitrogen permeability	Calculated (theoretical values)	cc/m².24h.atm	/	< 17,5	< 16,5	< 16,5	< 12,5	< 10	< 11,5	< 11,5	< 9	< 9	< 5
Carbon dioxide permeability	Calculated (theoretical values)	cc/m².24h.atm	/	< 350	< 325	< 325	< 250	< 200	< 225	< 225	< 175	< 175	< 100
External pouch dimensions	mm	da 100 a 300 mm	± 5 mm										
		da 301 a 600 mm	± 7 mm										
		> 601 mm	± 10 mm										
Sealing dimension	mm	7,5	± 4,5 mm ± 2,5 mm	for unprinted 3 side sealed / gussetted pouches for printed 3 side sealed / gussetted pouches						15 mm for bottom seal in gussetted pouches over 200 mm of width or "snip" pouches; 25 mm for bottom seal for pouches with Eurohole.			

**PROPERTIES:**

The product meets the legal requirements and European Laws for food packaging according to the certificate of food lawcompliance, Doc. E-CD02

Suitable for pasteurisation at 70°C for max. 2 hours, for freezing up to -25°C, for gamma irradiation < 25kGy, EO sterilisation.

The dimensions of the pouch include the welds.

Thechnical data refers to unprinted material: for printed material consider a maximum increasement of 2 µm for thickness and maximum 2 g/m² for weight per unit area.

Material must be stored away from direct sunlight, correctly packaged; temperature: between 10°C and 40°C; humidity: between 50 and 75%. Storage conditon as constant as possible.

What is declared in this TDS corresponds to our current knowledge; the values and functional claims are the result of documented tests to confirm their validity and as proof of the declared effects.

Such analytical documentation is available on request under a confidentiality agreement.

However, no liability, warranty or guarantee is given. The techn. data sheet does not release from the review of the packaging material for its intended purpose.

The document is provided electronically and is valid with the printed name of the originator.

**Note for end-user:**

the packaging is not suitable for consumption. Please remove it before food consumption.

Please observe the applicable national recycling regulations. Take care of the environment.