

**650** EMPLOYEES

COMPETENCE IN PACKAGING SINCE

**1950**

**3** TECHNOLOGIES

**PACKAGING SOLUTIONS THAT WHET THE APPETITE**

PRODUCT BROCHURE

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# WELCOME TO THE WORLD OF ETIMEX – PRIMARY PACKAGING MADE TO THE HIGHEST STANDARDS



## ETIMEX HOLDING

ETIMEX PRIMARY PACKAGING GmbH develops and produces films, sheets and containers made of various plastic materials for applications in packaging solutions in the food and pharmaceutical industries as well as films for technical applications.

ETIMEX TECHNICAL COMPONENTS GmbH is a supplier of customised blow-moulded and injection-moulded parts and assemblies. For over 30 years, we have been providing the leading automotive and appliance OEMs (white goods) with technically sophisticated, seamlessly 3D blow-moulded parts, plastic assemblies and rubber components.

## FACTS & FIGURES

- > Founded in 1950
- > 4 plants
- > 650 employees
- > EUR 150 million turnover/year
- > 5 technologies within the ETIMEX GROUP
- > Global sales network

## THE 4 ETIMEX PLANTS IN EUROPE:

- > Dietenheim Germany: Rigid Container, Film & Sheet
- > Rottenacker Germany: Technical Components
- > Waltershausen Germany: Technical Components
- > Hranice CZ: Technical Components

## DEVELOPING IDEAS. IMPLEMENTING SOLUTIONS.

ETIMEX implements together with you high-quality packaging solutions for food, pet food, baby food, convenience, pharmaceutical and technical products. With our highly committed and experienced team, we guarantee maximum flexibility and efficiency.

We apply cutting-edge technologies in the following production stages

- > Extrusion
- > Thermoforming
- > Injection moulding
- > IML (In-mould labelling)

We guide our customers from the initial idea through

- > Design development
- > Prototype manufacturing (3D)
- > Pilot tools manufacturing
- > Toolmaking

all the way to

- > Production and delivery

## ACHIEVING CUSTOMER SATISFACTION.

We promote the success of your products with individual and attractive packaging solutions.

Visit us on the Internet at [www.etimex.de](http://www.etimex.de) or LinkedIn and let our film and product finder inspire you.



Follow us.

# YOUR PARTNER FOR ALL YOUR PACKAGING NEEDS AND CUSTOM SOLUTIONS



<p><b>FLEXIBLE FILMS</b></p>	<p><b>INJECTION-MOULDED CUPS</b></p>	<p><b>READY MEAL TRAYS</b></p>
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<p><b>THERMO-FORMING SHEETS</b></p>	<p><b>PHARMA-CEUTICAL FILMS</b></p>
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**DIETENHEIM PLANT**

Dietenheim, south of Ulm, is located directly at the A7/A8 motorway interchange and thus at the most important north-south/west-east connection in the transit country Germany. We are based at the hub of Central Europe and are able to realise flexible deliveries at short notice throughout Europe according to customer requirements.

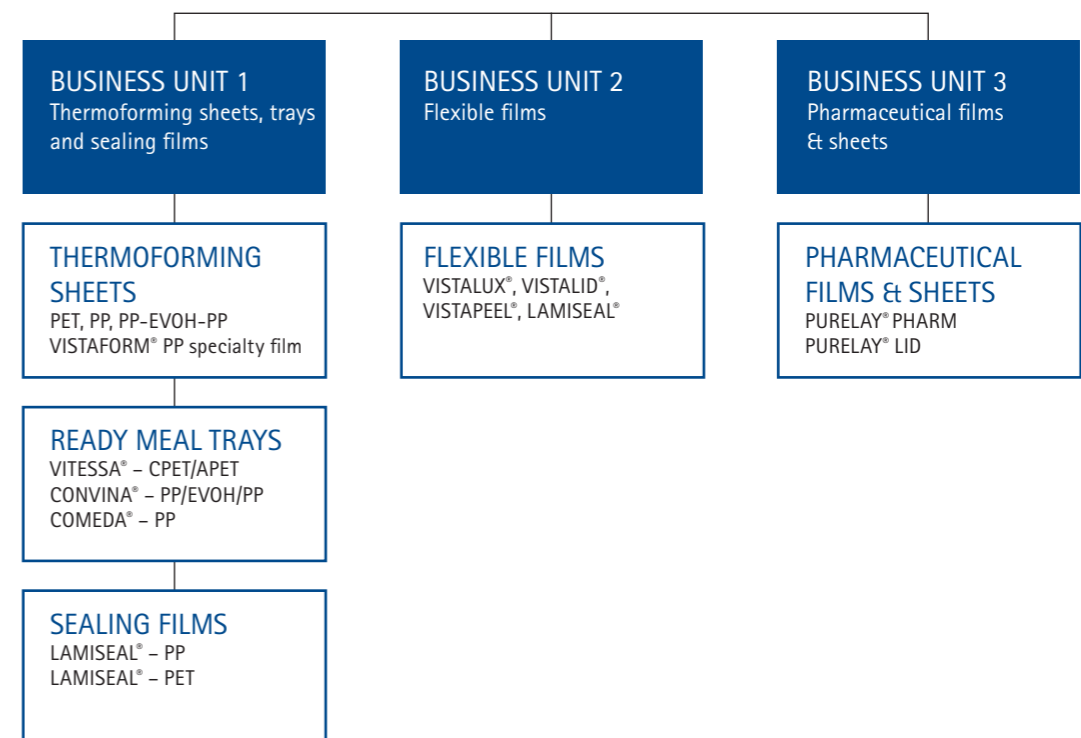
The airports of Munich and Stuttgart can be reached in 100 respectively 80 minutes.

**FACTS & FIGURES**

- > 3 technologies
- > 240 employees
- > 85,000 m<sup>2</sup> area
- > International sales network
- > More than 500 customers worldwide
- > More than 70 years of expertise
- > Owner-managed company
- > Made in Baden-Württemberg

**BUSINESS UNITS**

Our employees in the individual business units are experts in their field and provide you with comprehensive, professional and purposeful advice.



**COMPETENCE IN PACKAGING SINCE 1950**



LAMISEAL® PP SEALING FILM      IR-DETECTABLE      BARRIER THIN

CHEMICAL RECYCLING      \*COMPOSTABLE TRAYS AND CUPS      PLA/CPLA (WITH PVOH BARRIER)

SERIALIZATION      BONDING AGENT FILM

**INNOVATION**

SINGLE-MATERIAL SOLUTIONS – 100 % RECYCLABLE      rPET

CIRCULAR PET      PP HIGHLY TRANSPARENT

RECYCLABLE PP SEAL  
(PEELABLE / STERILIZABLE)

STATUS 05.2022

\*Under defined conditions in industrial composting plants



**INNOVATION PROVIDES THE CUTTING EDGE!**

Our team of experienced technicians and design engineers puts your ideas and in-house developments into practice. We work continuously on the advancement of all packaging solutions from the use of raw materials to the finished CAD file.

A defined and structured approach, from brainstorming and generation of ideas to concepting, has established ETIMEX PRIMARY PACKAGING as one of the leading and most innovative companies in the packaging industry.

**TOPICS THAT ARE IMPORTANT TO US**

- > Shelf life of the deposited content
- > Individual solutions in consideration of economic efficiency
- > Optics and haptics to create or emphasise brand identity
- > Convenience
- > Sustainable packaging solutions
- > Pioneering primary packaging
- > Recyclable packaging solutions

**ENVIRONMENT AND SUSTAINABILITY**

We attach great importance to environmental protection and a sustainable energy policy. Our goal is to improve energy performance while reducing environmental impact. This results from the responsibility that we understand as an obligation towards our staff, our customers, society and the environment.

At ETIMEX, economic efficiency and sustainability are not contradictory but rather mutually dependent. ETIMEX is ISO 14001:2015 certified and operates an energy management system certified to DIN EN ISO 50001:2018, which is the basis for continuous improvement of our energy efficiency and the systematic enhancement of energy flows.

ETIMEX pursues a continuous management process to identify and evaluate potential savings and has taken measures to permanently optimise its energy performance.

Contact us at:  
[sustainability@etimex.de](mailto:sustainability@etimex.de)

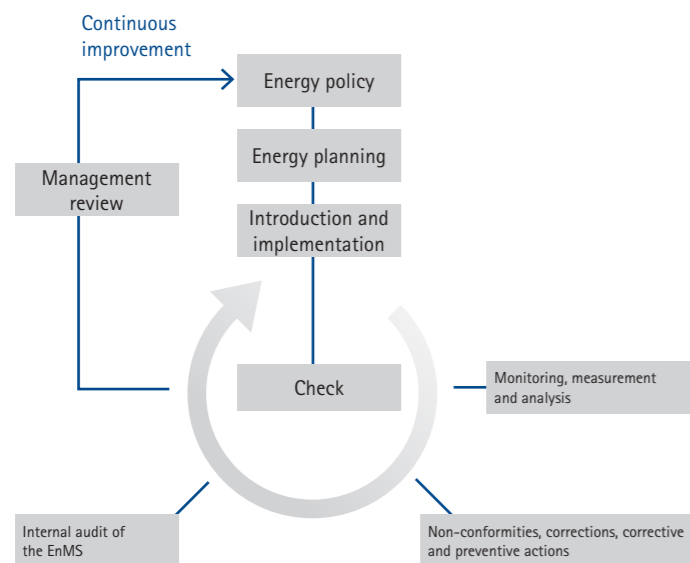
**COMPOSTABLE  
RECYCLABLE  
REUSABLE**

**INNOVATION IS OUR FUTURE!**



ENVIRONMENT AND SUSTAINABILITY

The requirements of DIN EN ISO 50001:2018 for an energy management system are based on the illustrated PDCA cycle (Plan-Do-Check-Act), which is a dynamic model for the continuous improvement of processes and systems. It ensures that the current energy consumption is continuously recorded, assessed and optimised.



SOLUTIONS

- > Use of recyclable mono-materials (100% PP mono) in the product areas trays, thermoforming sheets and flexible films
- > Production of aluminium-free PP mono blister packs
- > Production of detectable CPET trays
- > Use of recycled plastics (if technically feasible and physiologically harmless)
- > Energy saving and energy recovery
- > Reusable returnable packaging
- > Weight reduction
- > Recovery of production-related plastic waste (punching scraps, etc.)
- > Optimisation of the logistics supply chain = reduction of CO<sub>2</sub>

MINIMISATION OF FOOD WASTE

Save food starts with the packaging!

ETIMEX uses pioneering formulations for the production of primary packaging and the resulting reduction of food waste.

ETIMEX mono barrier films ensure:

- > Extension of the best-before date
- > Optimisation of product safety
- > High-quality products

The advantages of reducing food waste outweigh the CO<sub>2</sub> emissions from the incineration of packaging.

OBJECTIVES

- > Implementation of fully recyclable mono-materials for the product areas trays, thermoforming sheets, pharmaceutical films and flexible films
- > Reduction of plastic by minimising film thicknesses
- > Development of new formulations and materials
- > Responsible use of resources
- > Support of initiatives such as "Zero Pellet Loss"
- > Leading role in collaborative projects such as "PET Tray Recycling" initiated by the "IK-Arbeitskreis"

The aim of ETIMEX PRIMARY PACKAGING GmbH is to develop sustainable and recyclable mono solutions for the food and pharmaceutical industries. The majority of the products today is already fully recyclable.

SAVE FOOD STARTS WITH THE PACKAGING

# OUR CONTRIBUTION

## GREEN MAP



## OBJECTIVES/MEASURES



Avoidance of composite materials



Detectable packagings



Avoidance of food waste



Weight reduction logistics

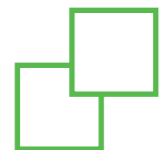


Reusable punching grids



Energy management

## RESULTS



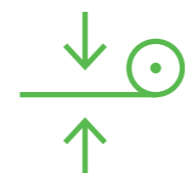
PP Mono material  
Fully recyclable



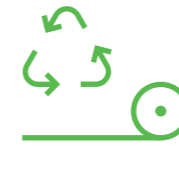
Recyclable  
PP/CPET trays



Safe  
packagings



Even thinner  
films



Films with  
recycled material



Use of renewable  
energies



Savings  
energy consumption

### PP MONO TO IMPROVE THE RECYCLING ECONOMY

Manufacturers drive the conversion to alternative packaging solutions for their products. This positive trend is becoming particularly apparent in the areas of pharmaceuticals and food supplements. The little environmentally-friendly blister standard is increasingly being replaced by a fully recyclable PP Mono solution. For this very purpose, ETIMEX has been providing convincing solutions for years:

- > Implementation of fully recyclable mono materials for the areas of trays as well as blister, pharmaceutical and flexible films
- > Manufacturing of recyclable PP single-material blisters
- > Manufacturing of detectable PP/CPET trays

### MINIMIZATION OF FOOD WASTE – BETTER CLIMATE FOOTPRINT THROUGH PACKAGING

As a packaging material, polypropylene offers an excellent barrier against humidity. Only one of the properties by which a reduction of food waste can be achieved: The benefits of the reduction of food waste outweigh the CO<sub>2</sub> emissions resulting from the burning of packagings. The recyclable PP Mono solutions for primary packagings counteract food waste by:

- > Extending shelf life
- > Optimizing product safety
- > High-quality products
- > Best hygienic standards

### PLASTIC REDUCTION FOR A BETTER CLIMATE FOOTPRINT

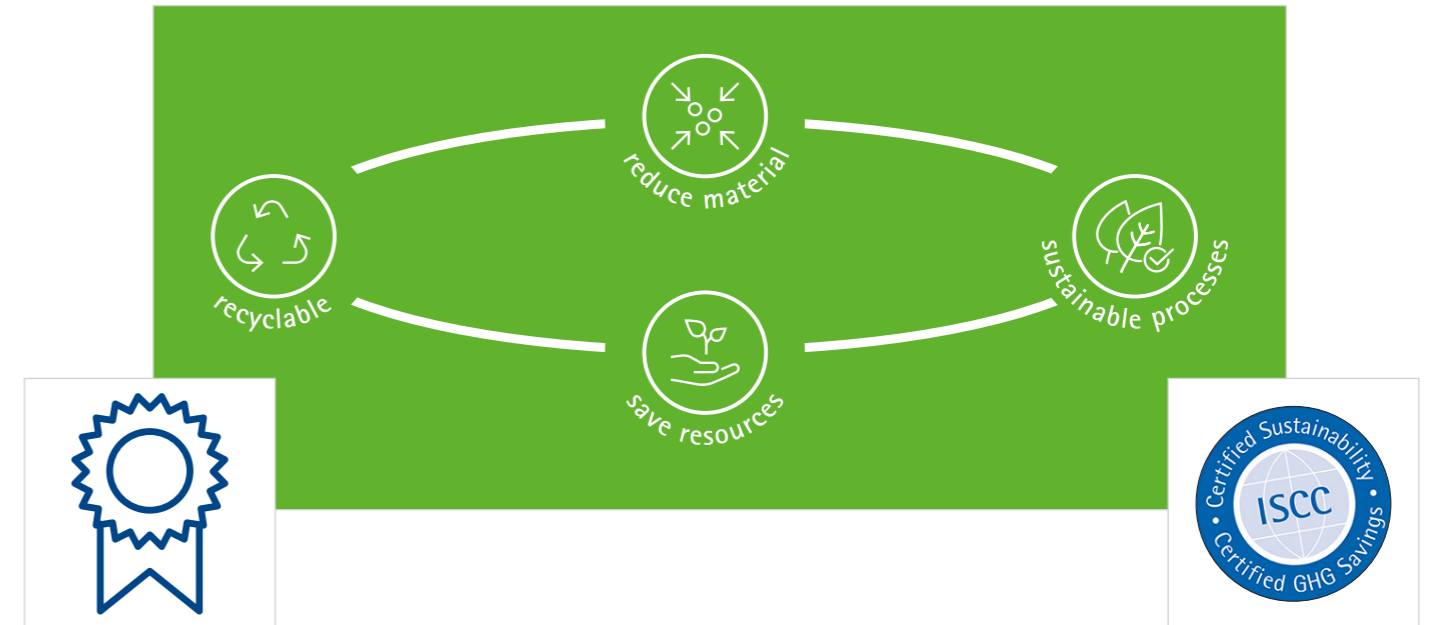
Sustainable production processes through material reduction: It is one of our sustainable strategies to reduce raw materials in primary packagings. For example by the recycling of production-related residues such as punching grids for a better recycling economy. The weight reduction of films is another significant strategy, as a light packaging sustainably improves the CO<sub>2</sub> emissions. ETIMEX reduces plastics by:

- > Minimization of film thicknesses
- > Weight reduction
- > Use of recycled plastic

### CONTINUOUS ENERGY MANAGEMENT FOR MORE SUSTAINABILITY

Continuity is a decisive factor for sustainable processes. We keep scrutinizing the status quo, thus discovering more and more optimization potential, e.g. by:

- > Support of initiatives such as "Zero Granulate Loss"
- > Responsible cooperation with projects such as „Recycling of PET trays: IK work group successful with pilot project"
- > Optimization of logistics chain = Reduction of CO<sub>2</sub>
- > Energy saving and energy recovery
- > Electricity from renewable energies (over 65%)
- > Returnable packagings



MEMBERSHIPS AND CERTIFICATES

OUR CERTIFICATIONS

- > ISO 9001:2015 (Quality)
- > ISO 14001:2015 (Environment)
- > ISO 45001:2018 (Safety)
- > ISO 50001:2018 (Energy)
- > BRC (Hygiene)
- > IK Zero Granulate Loss
- > ISCC PLUS (Chem. Recycling)

ISCC PLUS

ISCC PLUS (International Sustainability and Carbon Certification) is a globally recognized sustainability certification system for testing / traceability with respect to the sustainable production of raw materials and sustainable processes.

MEMBERSHIPS

ZLV

The Center for Food and Packaging Technology (ZLV) has set itself the target to create added value along the complete value creation chain of packaging.

PRS

PRS is a European network for a pallet return system. The PRS Green Label Partners contribute to reducing CO<sub>2</sub> emissions and packaging as well as promoting reuse.

ECOVADIS

EcoVadis allows companies to measure the performance of its suppliers with respect to sustainability.

INTERSEROH+

Interseroh+ rates the sustainability performance of a company and its products to target improvements.

IVLV

The IVLV network jointly explores relevant aspects of safely packaged food regarding all aspects of recycling.

WITH THE ETIMEX GREEN MAP TO SUCCESS: ISCC PLUS CERTIFICATION FOR ETIMEX

ETIMEX decided to strike the path to bring more sustainability in the packaging industry many years ago. The company has emphatically been pursuing the goal to make the packaging industry more sustainable for many years. With the ETIMEX Green Map, the company has even anchored this guideline on a strategic level – as a guide towards greater environmental awareness.

**ETIMEX as one of the first Packaging Manufacturers with ISCC PLUS Certification**

On this path, it is a special milestone for the company to rank among the first manufacturers of plastic films and applications that have successfully completed the ISCC PLUS audit with a certificate.

**“A further step towards our sustainable commitment to reduce the complete CO<sub>2</sub> footprint. We are prepared.”**

Martin Rank, Head of Sales & Marketing at ETIMEX Primary Packaging GmbH

With the ISCC PLUS certification, the company transparently reveals its efforts to significantly improve its own greenhouse gas balance and to actively save

fossil resources – thus affirming its responsibility towards society and future generations.

By its certification acc. ISCC PLUS and based on an external examination ETIMEX can prove that

- > the ISCC sustainability requirements are fulfilled
- > neither deforestation nor the loss of biodiversity are encouraged
- > traceability along the supply chain is guaranteed
- > credibility through a third-party audit is ensured
- > realistic and verifiable claims are made

This transparency is particularly exciting for customers of the manufacturer as the sustainable action of the company can be clearly retraced which likewise facilitates a potential ISCC PLUS certification of the customer.





### PRODUCTS

Plastic packaging has been our contribution to the optimum protection and appealing presentation of your high-quality products since 1950. We supply trays, cups and lids made from a wide range of plastics, tailored to the requirements of your products in terms of shelf life, flavour preservation and preparation methods.

The process for the production of VISTAFORM® PP sheets allows simple processing on all commercially available FFS systems. The thermoforming sheets made of PP, PET and PP barrier are characterised by maximum transparency.

Our flexible PP cast films provide converters with tailor-made mono and multi-layer films for stand-up pouches, printable peelable lidding and sealing films, as well as for sterilised medical applications.

Our films for pharmaceutical applications provide the ideal solution for environmentally friendly and PVC/PVdC-free blister packaging. The hygienically demanding PP sheet is produced in a clean room. An aluminium-free push-through film rounds off our range of products.

### EXTRUSION

- > From 25 µm to 2,500 µm and up to 9 layers
- > Cast film lines & co-extrusion
- > Roll stack extruder
- > Water quenching technology
- > Highly transparent, single- and multi-coloured films
- > Use of various barrier materials

### THERMOFORMING

- > Standard shapes, custom designs, perforated trays, dividable trays, multi-compartment trays and press-fit trays
- > Decoration with labels (IML)
- > Fully automatic removal and packaging

### INJECTION MOULDING

- > PP without barrier
- > With and without label (IML)
- > Fully automatic removal and packaging

## YOU ARE IMPORTANT TO US

### CUSTOMER ADVICE

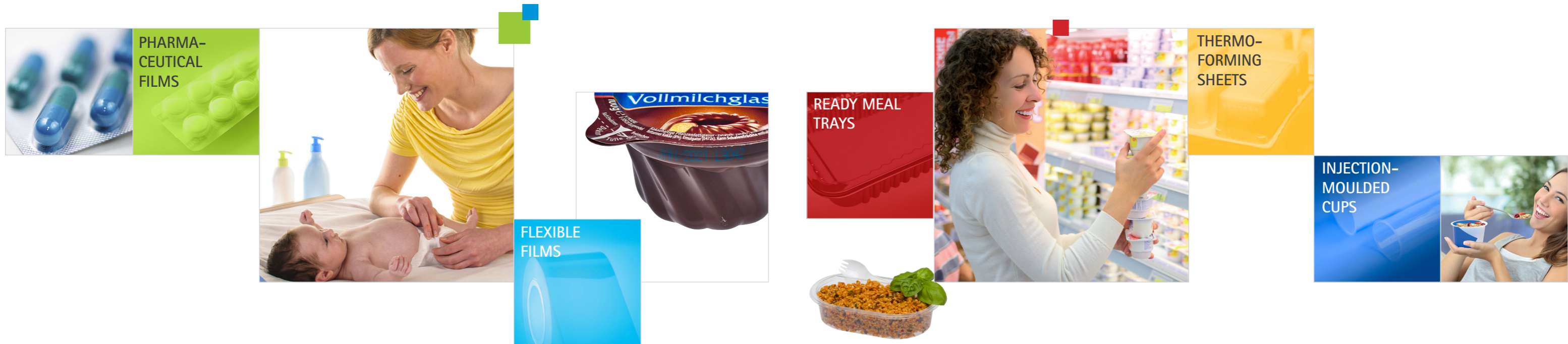
- > Conducting a target-actual comparison in a joint discussion taking into account all technical aspects and brand identity
- > Identification of options and development steps

### DEVELOPMENT STEPS

- > CAD design and presentation of the proposals
- > Prototype (3D) or sample tool manufacturing

### IMPLEMENTATION

- > Testing of pilot series
- > Support for the filling processes of the new packaging
- > Definition of sealing parameters, setting of autoclaves
- > On request, we accompany the first series production at your site



**PHARMACEUTICAL FILMS & SHEETS**

**PURELAY® PHARM – PURELAY® LID**  
TABLETS BLISTER PACKS, MONO BLISTER PACKS

We are the leading producer of thermoformable polypropylene pharmaceutical films for tablets blister packs and syringe packaging. Production happens in a "GMP Grade D" clean room.

Our PP push-through film substitutes aluminium and enables the production of environmentally friendly mono blister packs.

For more information about PURELAY®, please visit [www.etimex.de](http://www.etimex.de)

**FLEXIBLE FILMS**

**VISTALUX® – VISTALID® – VISTAPEEL®**  
LAMINATING FILMS FOR FLEXIBLE PACKAGING

For example, for stand-up pouches, easy-opening lidding films, sealing films and siliconisable films, separating films.

For the production of sealable, peelable or coatable cast polypropylene films (CPP), we exclusively process food-grade plastics. These PP laminating films are used as a functional layer in stand-up pouches, lidding films and sealing films. Siliconised variants serve as separating films.

**THERMOFORMING SHEETS, READY MEAL TRAYS AND SEALING FILMS**

**VITESSA® – CONVINA® – COMEDA® – VISTAFORM® – LAMISEAL®**

For ready meals – fresh, refrigerated, frozen or long-life (pasteurised, sterilised), soups, sauces, snacks and convenience products, coffee capsules, patés, spreads, sushi, antipasti and delicatessen, desserts, fruit salads, baby food, airline meals, meat and sausage products and community catering, pet and wet food.

We supply customised packaging such as thermoforming sheets, trays, CPET, APET, PP and PP barrier cups and lids for popular brands. ETIMEX PP and PET sealing films round off our range of primary packaging. Technically sophisticated and visually compelling solutions are our speciality, standard applications a matter of course.

PLEASE USE OUR PRODUCT FINDER ON THE INTERNET AS A STARTING POINT FOR YOUR IDEAS.

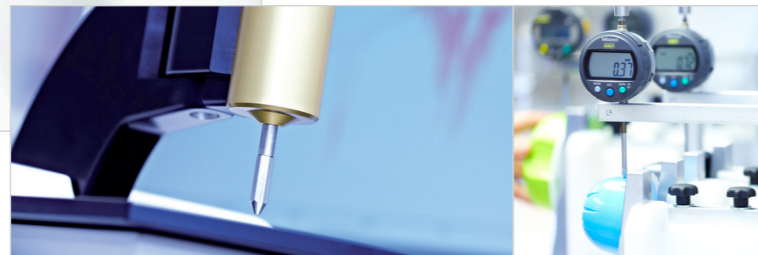
**INJECTION-MOULDED CUPS**

**INJECTION MOULDING FOR COMEDA® PP CUPS & TRAYS**

Many thermoformed products can also be produced by injection moulding, which offers the same properties as well as

- > Cost benefit for large quantities
- > Including flanged lids

**CONTACT US TO LEARN MORE.**



## QUALITY IS ESSENTIAL

### QUALITY AND HYGIENE

The ETIMEX quality and hygiene management in production is monitored and audited by independent certification bodies. Numerous customer audits confirm our high standard and the continuous improvement in the areas of hygiene and quality.

The high demands of the food industry are our minimum benchmark. ETIMEX has been certified for many years not only to ISO 9001:2015, but also to the BRC/loP standard.

In the pharmaceutical and healthcare product area, we produce in a "GMP Grade D" clean room.

#### WE ARE CERTIFIED TO

- > ISO 9001: 2015 (quality)
- > BRC (hygiene)
- > ISO 14001: 2015 (environment)
- > ISO 45001: 2018 (safety)
- > ISO 50001: 2018 (energy)
- > ISCC PLUS (sustainability)

### QUALITY ASSURANCE

ETIMEX relies on comprehensive quality controls, starting with worker self-monitoring and extending to continuous inline checks of the processes. Numerous laboratory tests on the finished products ensure compliance with the high quality standard. Various analytical tests, such as measuring the melt flow index (MFI) or the DSC or performing IR spectroscopy, guarantee the reproducibility of our production.

Functional measurements like sealed seam strength, cold crack resistance, shape retention and dimensional stability are elements of our in-house quality control. Independent institutes regularly test and certify the food safety of our products, in particular through migration measurements.

Our quality is governed by consumer health and smooth processing in your processes.



### CORPORATE SOCIAL RESPONSIBILITY CSR

ETIMEX is a member of the non-profit organisation "Sedex" (Supplier Ethical Data Exchange), which is actively promoting social and sustainable environmental conditions throughout supply and manufacturing chain.

"EcoVadis" offers our customers additional insight into our goals and successes in this area.

Of course, we also maintain other ethical principles such as the „Code of Conduct“.

### EMPLOYEES

Our employees are important to us. We offer:

- > Occupational health and safety certified to ISO 45001:2018
- > Continuous qualification and on-the-job training
- > The promotion of young talent and internal health care document our commitment to welfare far beyond the legal requirements

## OUR EMPLOYEES ARE AT THE HEART OF THE COMPANY



**OCCUPATIONS REQUIRING FORMAL TRAINING AT ETIMEX**

We offer apprentice positions for various professions and are always looking for open-minded, creative young people who would like to help shape the future of our company.

We provide training for a variety of professions in our company.

**INDUSTRIAL SECTOR**

**INDUSTRIAL MECHANIC PRODUCTION TECHNOLOGY (M/W/D)**  
> Duration of training 3.5 years

**ELECTRONIC TECHNICIAN INDUSTRIAL ENGINEERING (M/W/D)**  
> Duration of training 3.5 years

**PROCESS ENGINEER PLASTIC AND RUBBER TECHNOLOGIES (M/W/D)**  
> Duration of training 3 years

**COMMERCIAL/TECHNICAL SECTOR**

**INDUSTRIAL CLERK (M/W/D)**  
> Duration of training 3 years

**SPECIALISED COMPUTER SCIENTIST (M/W/D)**  
> Duration of training 3 years

In all professions, it is possible to reduce the duration of the training and be offered permanent employment, provided the grades are good.

Our current job advertisements can be found at:  
[www.etimex.de](http://www.etimex.de)

# PRODUCT INFORMATION

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# PHARMA- CEUTICAL FILMS

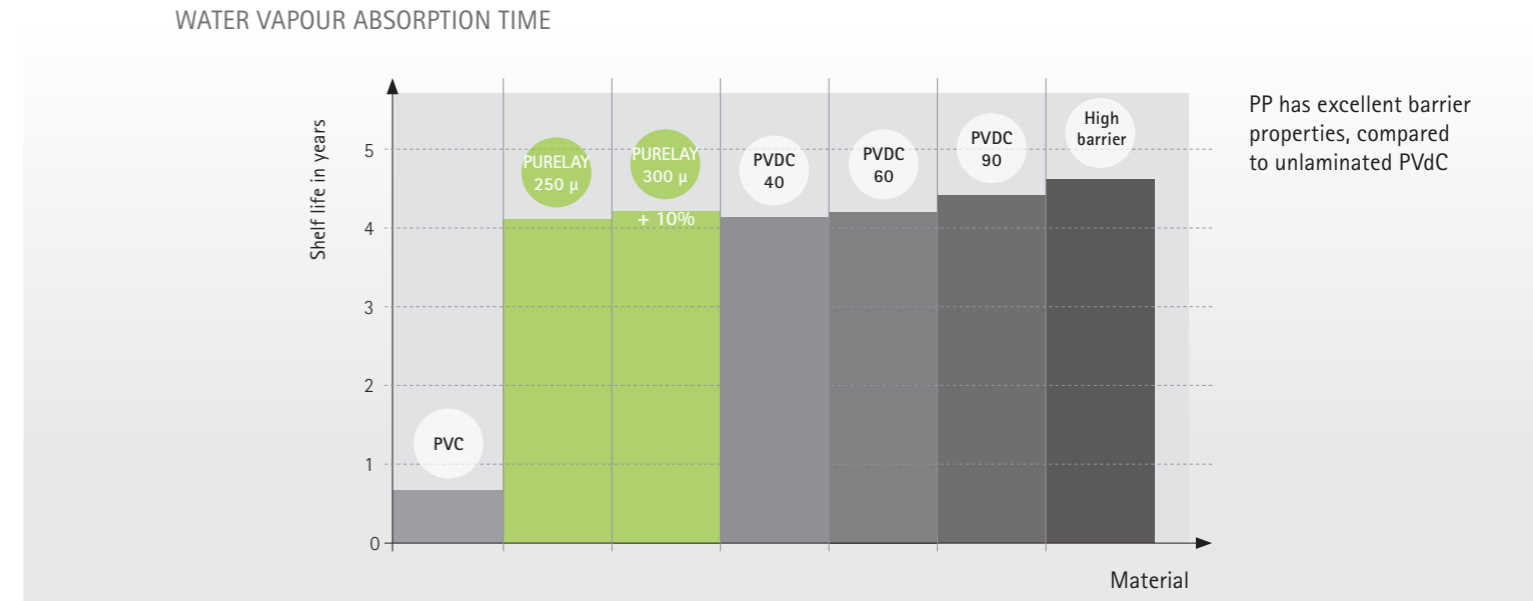
CONVENTIONAL BLISTERS

THE MONO MATERIAL SOLUTION

Recyclability  
**"very good"**  
19 of 20 Points

**GERMAN  
PACKAGING  
AWARD**

SUSTAINABILITY  
**WINNER  
2021**



#### PURELAY® PHARM PHARMACEUTICAL FILMS

PURELAY® PHARM films made of polypropylene offer the best water vapour barrier with simple quality control in your packaging process - the measurement of the wall thickness distribution is sufficient.

#### PROPERTIES & ADVANTAGES

- > High transparency
- > High water vapour barrier
- > Cost benefit
- > High machine performance
- > Clean room production
- > Excellent reproducible thermoforming properties
- > With PURELAY® PHARM and PURELAY® LID you obtain a mono blister pack. The best solution for PVC/PVdC-free blister packs.

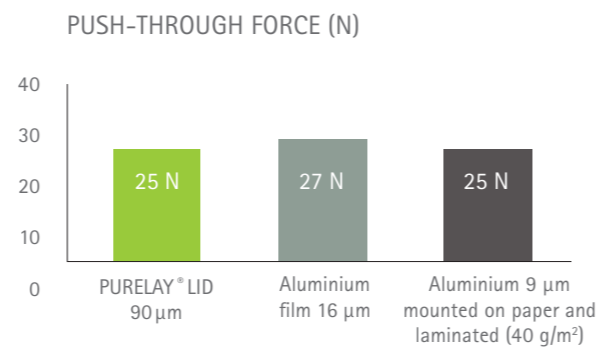
TRUST THE ORIGINAL!  
PROVEN TRACK RECORD.

FOR **30** YEARS

#### PURELAY® LID FILMS

- > Push-through PP sealable film for pharmaceutical blister packs
- > Substitution of e.g. aluminium possible
- > The film can be printed using conventional methods or painted over with a heat-resistant top coat

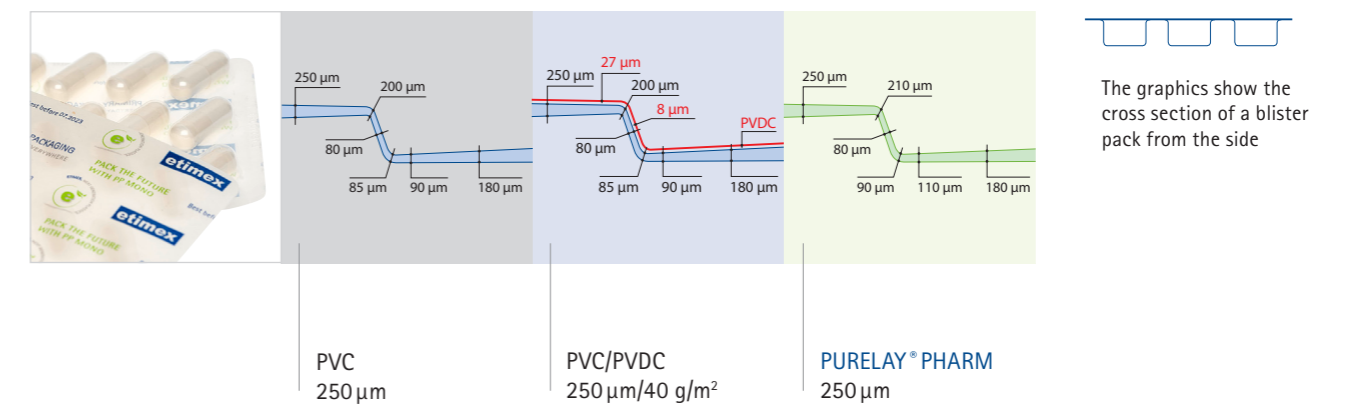
With PURELAY® PHARM and PURELAY® LID you obtain an environmentally friendly and aluminium-free PP mono blister pack.



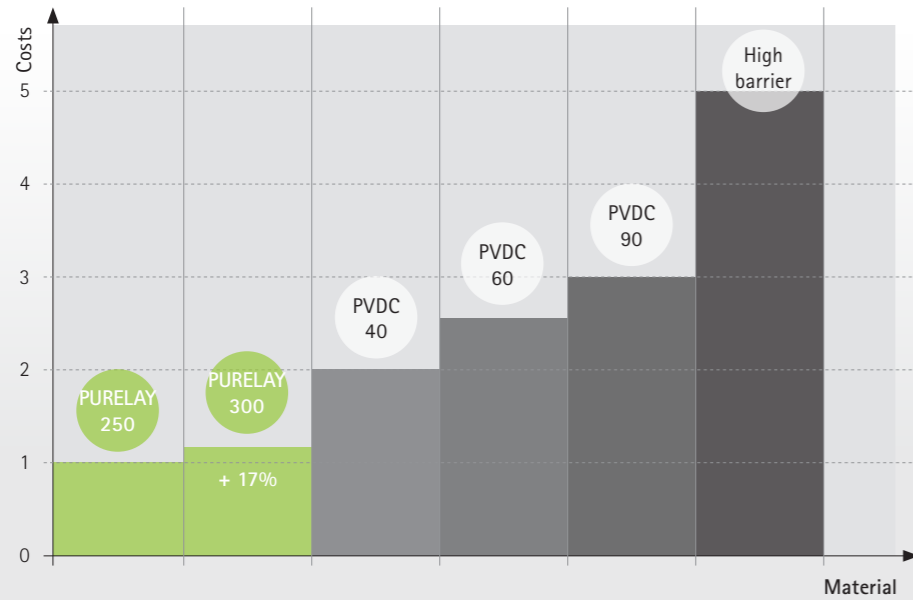
#### PRODUCT PROTECTION

The protection of drugs in blister packs is essentially determined by the thermoformed blister sheet. PURELAY® offers outstanding advantages in this respect.

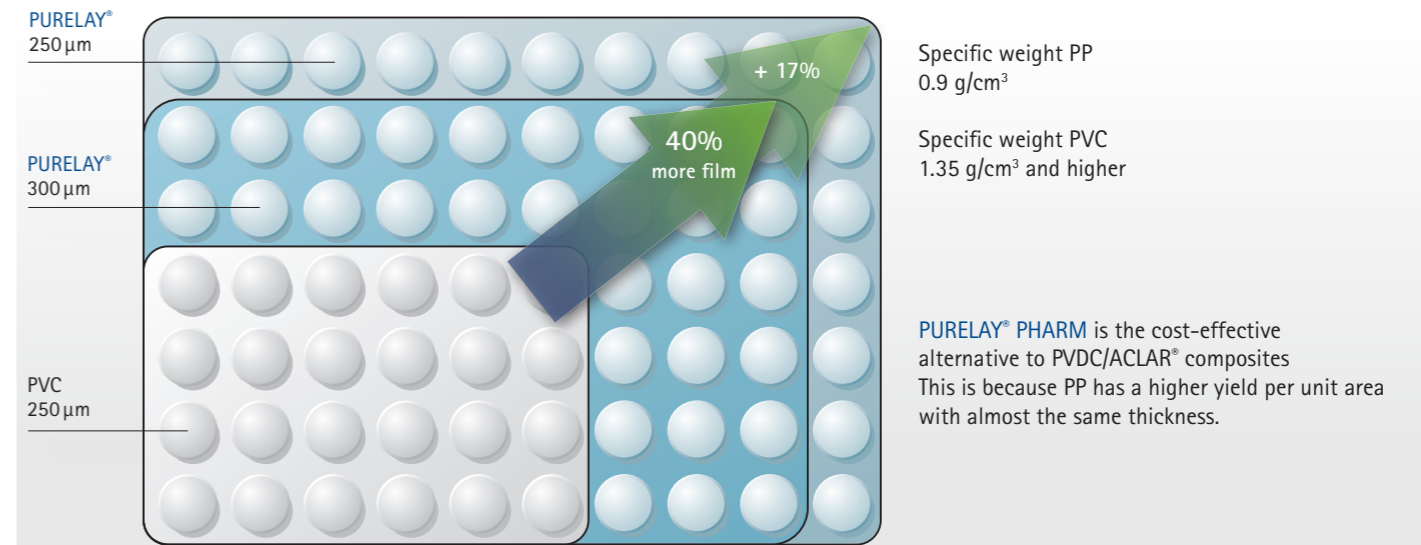
#### WALL THICKNESS DISTRIBUTION



COST - MATERIAL



FILM YIELD IN RELATION TO WEIGHT



**PHARMACEUTICAL FILMS  
IMPECCABLE QUALITY**

PURELAY<sup>®</sup> PHARM offers the best protection for your product in blister packs. The thermoformed film protects the product against environmental influences. PURELAY<sup>®</sup> PHARM is far superior to most plastic composite films in terms of water vapour.

The quality of the entire barrier layer can be easily and quickly tested by measuring the wall thickness distribution. Quality issues arising from damage to the thin barrier layer, as is the case with today's composite films, are ruled out.

For PURELAY<sup>®</sup> PHARM only medically approved certified polypropylene types are used. PURELAY<sup>®</sup> PHARM thermoforming sheets of 250 µm to 900 µm, in transparent, white and red colouring, meet all requirements of the regulatory authorities (DMF No. 17748).

Many renowned customers in the pharmaceutical industry have been relying on the quality of PURELAY<sup>®</sup> PHARM for many years. The ETIMEX quality assurance reaches an outstanding level. This is confirmed by our quality statistics, which can be viewed on request.

The clean room conforms to DIN EN ISO 14644 (ISO class 8). This is equivalent to the previous FDA 209 B (class 100,000). The particle concentration is continuously monitored.

**OPTIMISING PROFITS  
SAVING PACKAGING MATERIAL COSTS**

With PURELAY<sup>®</sup> THERMOFORMING SHEETS you achieve the same shelf life results for your product, but at greatly reduced costs.

Therefore, in a first step, put all previously used composite thermoforming sheets to the test. Determine your product-related savings potential and rely on our advice for the most cost-effective changeover strategy.

The lower density of PURELAY<sup>®</sup> PHARM results in a considerably higher yield per unit area. We assist you in permanently reducing packaging material costs and eliminating the quality risks associated with an important primary packaging material.

**PURELAY<sup>®</sup> PHARMACEUTICAL FILMS  
A GAIN FOR THE ENVIRONMENT**

Since PURELAY<sup>®</sup> PHARM consists of only one hydrocarbon-based material, it can be both recycled as a material and recovered as an energy source.

As a mono blister pack with PURELAY<sup>®</sup> LID, it is recycled in the volume flow of the PP plastic fraction. When composed with aluminium, it is recovered together with the aluminium to produce energy, thereby reducing the use of fossil fuels.

For more information, please refer to the Internet at: [www.etimex.de](http://www.etimex.de)



# FLEXIBLE FILMS



## VISTALUX®, VISTALID® & VISTAPEEL®

ETIMEX uses modern cast film lines to produce high-quality mono and co-extruded cast films as well as coating films from polypropylene. Flexible CPP-based films offer you as a converter tailor-made properties for many areas of application.

### VISTALUX® LAMINATING FILMS COATING FILMS

tightly sealing films for securely sealed heavy-duty packs. The films seal on PP or themselves. Our PP laminating films with direct contact to the food ensure secure sealing of the packaging.

A production according to food law standards and the selection of raw materials with corresponding approvals give you security when choosing the right film for your composites.

## VISTALUX® (THICKER FILM)

VISTALUX® polypropylene laminating films are used in the following areas:

- > Medicine
- > Hygiene
- > Technology
- > Food

### APPLICATIONS

- > In-vitro diagnostics
- > Graphical sector, printing plate mounting
- > Release liners
- > Hygiene sector, baby and incontinence napkin closures
- > Adhesive wound dressings
- > Use as a seal in valve discs for aerosol cans and for back-on-valve application
- > Bonding agent film for solvent-free lamination of sheet metal and other metallic surfaces
- > EAA film – hot melt adhesive film with exceptional adhesion to metal, i.e. cable coating
- > Test strips for urinalysis

## FOR THE FOOD & PET FOOD SECTOR

- > Stand-up pouches
- > Sealed pouches
- > Contact film for food products

### TYPES

- > Standard colours transparent and white, additional colours available on request
- > Mono- and co-extruded, also textured
- > Formulations are adapted to the individual requirements
- > Films for siliconisation (additive-free, smooth or embossed)
- > Films with pharmaceutical registration, single- or double-sided pre-treatment
- > Special formulations possible

## APPLICATION

Laminating of PET, OPP, OPA, aluminium, sheet metal, paper, etc.

The finished duplex or triplex composites are used as sealed pouches, sealable film and stand-up pouches for packaging food products, pet food, medical and technical products.



VISTALID® & VISTAPEEL® FILMS

Are PP-based peeling films for easy to open packaging and retort application.

VISTALID® FILMS

- > Co-extruded transparent and white, punchable variants (opaque white fill)
- > 40 to 300 µm, in opaque white from 80 µm
- > Film width unfilled < = 1,550 mm, filled < = 1,350 mm

VISTAPEEL® FILMS

Peel with increased sealed seam strength to PP and itself, can be used for sterilisation with stringent requirements

- > Naturally transparent, white
- > 40 to 200 µm
- > Film width < = 1,550 mm

APPLICATION

Laminated on PET or lacquered with a heat-resistant coating, the films are used as peelable sealing films in FFS systems. The filled versions are also used as punched plastic boards for the peelable sealing of trays and cups. Special designs are also suitable for the sterilisation of the filled packaging.

SPECIAL APPLICATION

Peelable against itself in composite film pouches.

OUR OFFERING IN THE FLEXIBLE FILMS SEGMENT

- > Formulations suitable for pharmaceutical or sterilisation applications
- > Mechanical properties can be modified to a certain extent
- > Coloured variants (translucent and opaque)

VISTALID® & VISTAPEEL® POLYPROPYLENE PEELING FILMS

They are used in the food sector as lidding films for dairy products, fruit cups and slip-on lids as freshness protection, if the film lid has already been removed.

These film formulations can, however, also be used in other segments, in which something should be opened comfortably by peeling. e.g. contact lenses packaging.



# THERMO- FORMING SHEETS



## ETIMEX PP BARRIER THERMOFORMING SHEET

Thermoformable polypropylene barrier sheet using EVOH as a barrier layer (PP-EVOH-PP), suitable for producing thermoformed packaging with a high oxygen barrier.

- > Temperature-resistant from +2 °C to +125 °C
- > Shelf life up to 18 months
- > In-house development department

### APPLICATION AREAS

- > Sterilised foods
- > Baby food
- > Fruit salads
- > Coffee capsules
- > Desserts
- > Pet food
- > And many more

## PROPERTIES

### COLOUR

- > White/white, ivory/white, black/black or black/white and transparent
- > Additional colouring available on request
- > Bicoloured

### STERILISATION

- > Up to 125 °C possible

### ADDITIVES

- > On request, the film can be adapted to individual product requirements, e.g. equipping with anti-static agents, scavengers (absorbers) and special laser additives for optical modification of colour pigments

### WIDTH

- > 200 – 750 mm

### THICKNESS

- > 600 – 2,500 µm

## ETIMEX PP THERMOFORMING SHEETS

Thermoformable mono/multi-layer polypropylene (PP) sheet, suitable for producing thermoformed packaging on thermoforming lines and FFS systems.

- > Made from polypropylene (PP mono film)
- > Temperature-resistant from +2 °C to +125 °C (PP momo) and -40 °C to +125 °C (Co-PP)
- > In-house development department

### APPLICATION AREAS

- > Fresh ready meals
- > Refrigerated ready meals
- > Deep-frozen ready meals
- > Snacks
- > Confectionery
- > Dishwasher tabs
- > Battery packaging

## PROPERTIES

### COLOUR

- > Transparent, white, black and coloured
- > Additional colouring, also bicoloured

### ADDITIVES

- > On request, the film can be adapted to individual product requirements, e.g. equipping with antistatic agents, etc.

### WIDTH

- > 200 – 750 mm

### THICKNESS

- > 600 – 2,500 µm

MONO SOLUTIONS ...

... 100 % RECYCLABLE



**VISTAFORM® PP THERMOFORMING SHEET**

Thermoformable propylene (PP) mono film with a fine crystalline structure, produced according to a patented process. The hallmarks of this film are its excellent reproducible thermoforming properties and high transparency.

Suitable for producing thermoformed packaging on thermoforming lines and FFS systems.

**APPLICATION AREAS**

- > Snack packaging
- > Blister packs in the food and technical segments (e.g. tabs, dragées, batteries, chewing gum)
- > FFS for sophisticated applications

**PROPERTIES**

**COLOUR**

- > Transparent
- > Additional colourings available on request

**WIDTH**

- > 150 – 1,220 mm

**THICKNESS**

- > 250 – 800 µm
- > Other dimensions available on request



**ETIMEX CPET AND APET - THERMOFORMING SHEET**

Thermoformable mono/multi-layer polyester (PET) film, suitable for producing thermoformed packaging on thermoforming lines and FFS systems.

- > Made from amorphous (APET) and crystalline (CPET) polyester
- > Crystal-clear, black, white and translucent
- > Temperature-resistant from -40 °C to +70 °C

**APPLICATION AREAS**

- > Fresh snacks and salads
- > Delicatessen
- > Deep-frozen products
- > Ready meals
- > Suitable for MAP

**PROPERTIES**

**COLOUR**

- > Natural colours
- > Crystal-clear
- > Black
- > White
- > Additional colourings available on request

**ADDITIVES**

- > On request, the film can be adapted to individual product requirements, e.g. equipping with a slip agent, etc.

**WIDTH**

- > 200 – 710 mm

**THICKNESS**

- > 400 – 800 µm
- > Other dimensions available on request

**FOOD REGULATIONS**

The plastics used to produce the films are approved for contact with foodstuffs in accordance with the currently applicable EC directives. The limit values regarding migration according to the EC directive are adhered to. FDA is available on request.

# INJECTION-MOULDED CUPS



## INJECTION MOULDING FOR COMEDA® PP CUPS & TRAYS

Many thermoformed products can also be produced by injection moulding, which offers the same properties as well as cost benefits for large quantities.

- > Also for flanged lids or sealing edge
- > PP
- > With and without label (IML)
- > Use of robots for removal and packaging

[CONTACT US TO LEARN MORE.](#)



# READY MEAL TRAYS



## STANDARD RANGE

VITESSA® CPET AND APET READY MEAL TRAYS

We offer a range of solutions for a variety of applications. Be inspired by ideas that whet the appetite.

## OUR SPECIAL OFFERING IN THE READY MEAL TRAY SEGMENT

- > Complex geometries (e.g. engraving of logos, multi-compartment trays, etc.)
- > Multi-layered film structure, also available multi-coloured
- > Bottom ventilation (channels), ribs to increase stability
- > Trays with labels (IML)
- > Clamping lids, snap-on lids, also highly transparent, with or without label (IML)
- > Bicoloured trays

## VITESSA® CPET TRAYS

Temperature-resistant from -40 °C to +220 °C

### APPLICATION AREAS

For refrigerated or deep-frozen ready meals such as lasagna, pasta, ready menus or soups as well as pasteurised meals.

Preparation in conventional and fan ovens or in the microwave.

Maintaining minimum tolerances ensures perfect automatic denesting and exact sealing on the tray sealer.

**NEW:** CPET TRANSLUCENT

Show what is in your packaging.

## VITESSA® APET TRAYS

Temperature-resistant from -40 °C to +70 °C

### APPLICATION AREAS

For sensitive filling products such as antipasti, gourmet salads, dips, spreads and snacks.

Suitable for MAP.

Crystal-clear – ETIMEX APET trays convince by their high transparency and provide a very good oxygen barrier for the optimal product presentation at the POS.

Are you looking for solutions for your product? Then we will be happy to help you. Please contact us!

[sales@etimex.de](mailto:sales@etimex.de)

Trays	Art. No.	Volume ml – brimful		Depth mm	Comments
	1161	145	105 x 87	27	no denesting
	1093 1094 1092	300 360 400	145 x 106 145 x 106 145 x 106	34 44 50	no denesting stacking rim stacking rim
	1660	325	145 x 106	35	AB denesting
	1680	340	151 x 111	34	AB denesting
	1232 1231	400 500	155 x 127 155 x 127	30 40	stacking rim stacking rim
	1420	390	160 x 122	39	AB denesting
	5060 5061	556 700	160 x 140 160 x 140	47 53	AB denesting with ribs
	5140 5141	590 730	160 x 160 160 x 160	40 50	AB denesting AB denesting
	1531	340	161 x 107	30	AB denesting
	1464	570	165 x 123	43	AB denesting
	1798	380	171 x 98	35	AB denesting

Trays	Art. No.	Volume ml – brimful		Depth mm	Comments
	1054 1053 1052	365 550 660	171 x 127 171 x 127 171 x 127	25 40 50	no denesting AB denesting AB denesting
	1056	550	171 x 127	40	AB denesting
	1785 1787 1788	510 500 785	171 x 127 171 x 127 171 x 127	35 35 53	AB denesting with ribs AB denesting
	1783	650	171 x 127	53	stacking rim
	1072 1073 1075 1079	680 750 900 1010	176 x 162 176 x 162 176 x 162 176 x 162	35 40 50 53	no denesting no denesting no denesting AB denesting
	1184	500	187 x 137	34	AB denesting
	1182 1188 1180 1189	620 640 730 1055	187 x 137 187 x 137 187 x 137 187 x 137	36 40 45 63	AB denesting AB denesting AB denesting AB denesting
	1186	420	187 x 137	25	stacking rim
	1401	565	188 x 118	37	AB denesting
	1940	735	200 x 155	36	AB denesting
	1813 1444	620 1100	200 x 155 200 x 155	30 56	AB denesting stacking rim

Trays	Art. No.	Volume ml – brimful		Depth mm	Comments
	1430	800	201 x 154	35	stacking rim
	1920	890	202 x 157	40	AB denesting
	1360 1363	725 820	208 x 158 208 x 158	32 37	AB denesting AB denesting
	1581	1010	226 x 176	34	AB denesting
	1009 1002	1000 1360	226 x 177 226 x 177	36 51	stacking rim AB denesting
	1772	1375	226 x 177	51	AB denesting
	1020 1774	890 1655	226 x 177 226 x 177	31 63	AB denesting AB denesting
	1018	1200	227 x 177	40	AB denesting
	1671	1030	234 x 184	34	AB denesting
	1450	1065	235 x 185	33	AB denesting
	1950 1951 1952	1260 1380 1310	244 x 149 244 x 149 244 x 149	49 55 55	AB denesting AB denesting AB denesting, with ribs

Trays	Art. No.	Volume ml – brimful		Depth mm	Comments
	5053	1380	263 x 163	50	AB denesting
	1755 1756	1980 2340	325 x 176 325 x 176	50 60	AB denesting AB denesting 1/3 gastronomy standard
	1750 1752 1751	3190 3750 5000	325 x 265 325 x 265 325 x 265	51 60 81	AB denesting AB denesting AB denesting 1/2 gastronomy standard
	1630	130	171 x 123	12	no denesting
	1650	465	265 x 190	17	no denesting
	1930	700	220 x 186	30	AB denesting
	1270	580	220 x 192	23	stacking rim
	1059	330 / 225 = 555	171 x 127	40	AB denesting
	1057	440 / 35 = 475	171 x 127	40	no denesting
	1076	250 / 190 = 440	176 x 162	30	no denesting
	1077	325 / 265 = 590	176 x 162	35	no denesting

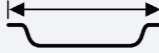











Trays	viteira® Art. No.	Volume ml - brimful		Depth mm	Comments
	1078	445 / 405 = 850	176 x 162	53	AB denesting
	1181 1187	300 / 250 = 550 400 / 335 = 735	187 x 137 187 x 137	36 57	AB denesting AB denesting
	1185	405 / 405 = 810	187 x 137	60	AB denesting
	1441 1817 1944	325 / 325 = 650 455 / 455 = 910 515 / 515 = 1030	200 x 155 200 x 155 200 x 155	36 50 59	no denesting AB denesting AB denesting
	1443	390 / 265 = 655	200 x 155	36	AB denesting
	1941	425 / 425 = 850	200 x 155	54	AB denesting
	1810	450 / 450 = 900	200 x 155	50	no denesting
	1811	440 / 360 = 800	200 x 155	55	no denesting
	1814	515 / 515 = 1030	200 x 155	55	AB denesting
	1431 1433	370 / 370 = 740 450 / 450 = 900	201 x 154 201 x 154	35 45	stacking rim stacking rim
	1361	250 / 195 = 445	208 x 158	32	AB denesting

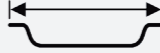











Trays	viteira® Art. No.	Volume ml - brimful		Depth mm	Comments
	1364 1367	420 / 300 = 720 490 / 330 = 820	208 x 158 208 x 158	35 40	AB denesting AB denesting
	1582	560 / 380 = 940	226 x 176	34	AB denesting
	1019	480 / 310 = 790	226 x 177	30	AB denesting
	1932	540 / 460 = 1000	220 x 186	50	AB denesting
	1007 1016	600 / 460 = 1060 700 / 525 = 1225	226 x 177 226 x 177	44 52	AB denesting AB denesting
	1022	460 / 360 = 820	226 x 177	31	stacking rim
	1006 1779	440 / 380 = 820 490 / 420 = 910	226 x 177 226 x 177	31 35	AB denesting AB denesting
	1004 1778	480 / 310 = 790 700 / 445 = 1145	226 x 177 226 x 177	30 46	stacking rim AB denesting
	1010	605 / 605 = 1210	226 x 177	51	AB denesting
	1777	760 / 760 = 1520	226 x 177	65	AB denesting
	1672	560 / 370 = 930	234 x 184	34	AB denesting

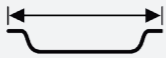



Trays	viteira® Art. No.	Volume ml – brimful		Depth mm	Comments
	1451	625 / 340 = 965	235 x 185	33	AB denesting
	1453	570 / 390 = 960	235 x 185	34	AB denesting
	1449	275 / 110 / 110 = 495	200 x 155	26	no denesting
	1368	330 / 190 / 155 = 675	208 x 158	36	AB denesting
	1583	400 / 295 / 225 = 920	226 x 176	34	AB denesting
	4026	295 / 160 / 120 = 575	226 x 177	23	APET stacking rim
	1001 1003	390 / 200 / 150 = 740 545 / 280 / 210 = 1035	226 x 177 226 x 177	31 46	AB denesting AB denesting
	1014	320 / 255 / 155 = 730	226 x 177	31	AB denesting
	1024	485 / 280 / 180 = 945	226 x 177	41	stacking rim
	1026	490 / 425 / 245 = 1160	226 x 177	54	AB denesting
	1673	362 / 263 / 263 = 888	234 x 184	34	AB denesting

Trays	viteira® Art. No.	Volume ml – brimful		Depth mm	Comments
	1674	480 / 230 / 200 = 910	234 x 184	34	AB denesting
	1452	340 / 280 / 280 = 900	235 x 185	33	AB denesting
	1454	390 / 265 / 265 = 920	235 x 185	34	AB denesting
	1105 1107	190 200	95 95	40 48	stacking rim stacking rim
	1106	254	95	52	stacking rim
	5000	340	124	53	stacking rim
	5001	280	124	38	stacking rim
	1871 1870	435 615	138 138	44 64	stacking rim stacking rim
	1136	280	195	14	no denesting
	1133 1130	290 320	195 195	15 17	no denesting no denesting
	1138	630	195	30	AB denesting



Trays	<i>viteira</i> Art. No.	Volume ml – brimful		Depth mm	Comments
	1132	1450	195	70	no denesting
	1134	1245	195	80	no denesting
	1139	460 / 460 = 920	195	57	stacking rim
	1292	470	212	20	no denesting
	1295	415	212	20	no denesting
	1297	470	212	20	stacking rim
	1142	490	240	15	no denesting
	1141 1140	1045 1380	240 240	30 41	no denesting no denesting
	1560 1563 1562	180 215 250	109 x 95 109 x 95 109 x 95	47 60 65	stacking rim stacking rim stacking rim
	1225	385	162 x 126	51	stacking rim
	1223 1224 1222	300 350 400	162 x 126 162 x 126 162 x 126	38 43 51	stacking rim stacking rim stacking rim

Trays	<i>viteira</i> Art. No.	Volume ml – brimful		Depth mm	Comments
	1762 1761	545 660	165 x 150 165 x 150	51 73	stacking rim stacking rim
	1490 1492	530 630	197 x 160 197 x 160	40 50	stacking rim stacking rim
	1790	325	168 x 111	33	stacking rim
	1991 1990	745 1260	240 x 178 240 x 178	31 54	AB denesting AB denesting
	1340	530	242 x 171	21	no denesting
	1341	800	242 x 171	40	no denesting
	1992	610 / 400 = 1010	240 x 178	50	AB denesting
	1830	1250	266 x 178	54	AB denesting
	1524	555 / 555 / 550 = 1660	285 x 240	50	stacking rim
	1525	380 / 345 / 220 = 945	285 x 240	26	stacking rim
	1522 1529	280 / 265 / 240 / 160 = 945 320 / 310 / 280 / 185 = 1095	285 x 240 285 x 240	30 32	stacking rim stacking rim

Trays	Viteza® Art. No.	Volume ml – brimful		Depth mm	Comments
	1520 1526	420 / 400 / 355 / 230 = 1405 455 / 440 / 395 / 260 = 1550	285 x 240 285 x 240	50 52	stacking rim stacking rim
	1523 1521 1527	275 / 265 / 185 / 135 / 90=950 410 / 395 / 220 / 220 / 105=1350 450 / 440 / 245 / 245 / 125=1505	285 x 240 285 x 240 285 x 240	30 50 52	stacking rim stacking rim stacking rim
	4111 4110 2180	210 310 -	134 x 100 134 x 100 138 x 104	27 40 11	APET tray stacking rim APET lid stacking rim

**OTHER PUNCHING GEOMETRIES ON REQUEST.**

We look forward to work with you on developing individual trays tailored to your needs.

**LIDS AVAILABLE ON REQUEST.**

**OUR SPECIAL OFFERING FOR VITESSA® APET & CPET TRAYS**

- > Complex geometries (e.g. engraving of logos, multi-compartment trays, etc.)
- > Multi-layered film structure, also multi-coloured
- > Ribs to increase stability
- > Clamping lids, snap-on lids, also highly transparent

**NEW: CPET TRANSLUCENT**





**STANDARD RANGE**

CONVINA® PP BARRIER & COMEDA® PP READY MEAL TRAYS

We offer a range of solutions for a great variety of applications. Be inspired by ideas that whet the appetite.

**CONVINA® PP BARRIER TRAYS & CUPS**

Temperature-resistant from +2 °C to +125 °C, high oxygen barrier thanks to EVOH barrier layer, flavour protection and water vapour barrier ensure long shelf life for sterilised meals at room temperature.

**APPLICATION AREAS**

For sterilised and pasteurised ready meals. Preparation in the microwave or bain-marie.



**COMEDA® PP TRAYS & CUPS**

Temperature-resistant, depending on the raw material from:

- > PP mono: +2 °C to +125 °C
- > PP copo: -18 °C to +125 °C

**APPLICATION AREAS**

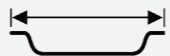











For fresh and refrigerated ready meals, deep-freezing with appropriate material selection. Preparation in the microwave or bain-marie.

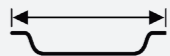






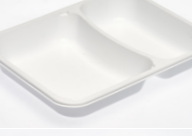



PP MONO – THE MONO-MATERIAL SOLUTION:  
100% RECYCLABLE WITH AND WITHOUT BARRIER

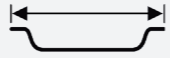











- > Highly PP mono trays and cups – the APET replacement of the future

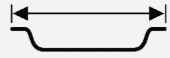











Are you looking for solutions for your product? Then we will be happy to help you. Please contact us!


[sales@etimex.de](mailto:sales@etimex.de)

Trays	COMEDA®	CONVINA®	Volume ml - brimful		Depth mm	Comments
	Art. No.	Art. No.				
	3086	8086	230	137 x 93	28	stacking rim
	3087	8087	255	137 x 93	31	
	3088	8088	300	137 x 93	38	
	3082	8082	340	137 x 93	48	
	3490	8490	500	144 x 105.5	52	AB denesting
	3910	8910	410	154 x 129	33	stacking rim
	3540	8540	315	163 x 119	28	
	3541	8541	430	163 x 119	38	
	3050	8050	435	171 x 127	30.5	AB denesting
	3451	8451	335	178 x 117	38	stacking rim
	3600	8600	390	180 x 112.5	34	stacking rim
	3601	8601	280	180 x 112.5	34	stacking rim
	3064	8064	465	187 x 137	25	
	3060	8060	610	187 x 137	36	
	3065	8065	880	187 x 137	50	stacking rim

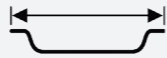


Trays	COMEDA®	CONVINA®	Volume ml - brimful		Depth mm	Comments
	Art. No.	Art. No.				
	3962	8962	910	227 x 178	33	AB denesting
	3942	8942	1040	265 x 162	40	AB, ¼ GN
	3941	8941	1300	265 x 162	50	AB, ¼ GN
	3943	8943	1420	265 x 162	50	AB denesting
	3940	8940	1550	265 x 162	60	AB, ¼ GN
	3944	8944	1700	265 x 162	60	AB denesting
	3932	8932	2440	325 x 265	40	AB, ½ GN
	3930	8930	3065	325 x 265	50	AB, ½ GN
	3931	8931	3675	325 x 265	60	AB, ½ GN
	3933	8933	6000	325 x 265	100	AB, ½ GN
	3912	8912	235 / 160 = 395	154 x 129	36	stacking rim
	3660	8660	155 / 155 = 310	160 x 115	30	stacking rim
	3061	8061	290 / 245 = 535	187 x 137	36	
	3961	8961	545 / 363 = 908	227 x 178	35	AB denesting
	3960	8960	363 / 297 / 194 = 854	227 x 178	35	AB denesting
	3551	8551	100	80	31	
	3288	8288	95	80	34	stacking rim
	3280	8280	140	80	47	
	3550	8550	145	80	50	
	3287	8287	128	80	43	stacking rim

Trays	COMEDA®	CONVINA®	Volume ml - brimful		Depth mm	Comments
	Art. No.	Art. No.				
	3880	8880	120	84	58	stacking rim
	3950	8950	230	90	60	stacking rim
	3292 3295	8292 8295	330 225	93 93	80 62	
	3470 3471	8470 8471	340 245	95 95	85 56	with ribs
	3474	8474	200	95	50	stacking rim
	3472	8472	205	95	50	
	3411 3610	8411 8610	160 205	102 102	30 39	
	3570	8570	280	125	38	stacking rim
	3560	8560	435	138	44	
	3390	8390	570	148	62	
	3519	8519	450	180	29	

Trays	COMEDA®	CONVINA®	Volume ml - brimful		Depth mm	Comments
	Art. No.	Art. No.				
	3162	8162	470	184	32	
	3517	8517	640	180	33	
	3201	8201	505	180	36	
	3515	8515	270 / 190 = 460	180	33	
	3520	8520	310 / 245 = 555	180	33	
	3529	8529	320 / 260 = 580	180	36	
	3161	8161	305 / 240 = 545	184	32	no denesting
	3516	8516	330 / 180 / 115 = 625	180	38	
	3160	8160	235 / 200 / 145 = 580	184	39	
	3210	8210	281 / 202 / 121 = 604	185 x 179	41	
	3190	8190	330	128 x 118	48	

Trays	COMEDA® Art. No.	CONVINA® Art. No.	Volume ml - brimful		Depth mm	Comments
	3181	8181	340	138 x 117	54	
	3136	8136	150	138 x 117	23	
	3135	8135	250	138 x 117	38	
	3134	8134	300	138 x 117	48	
	3185	8185	425	138 x 117	64	
	3313	8313	500	187 x 156	39	stacking rim

OTHER PUNCHING GEOMETRIES ON REQUEST

Lids		CONVINA® Art. No.			Depth mm	Comments
		2601		90	12	stacking rim
		2600		90	28	stacking rim

OUR SPECIAL OFFERING FOR  
COMEDA® & CONVINA®

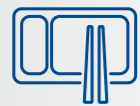
- > Complex geometries (e.g. engraving of logos, multi-compartment trays, etc.)
- > Multi-layered film structure, also multi-coloured
- > Ribs to increase stability
- > Clamping lids, snap-on lids, also highly transparent

We look forward to work with you on developing individual trays tailored to your needs.

ALL INFORMATION IS SUBJECT TO CHANGE.



PP APPLICATION AREAS



Ready meals



Fish



Fruit



Soups



Meat



Vegetables



PET APPLICATION AREAS



Ready meals



Pasta



Soups



Sauces



PP DUAL PACKAGING: SEALING FILMS

PROPERTIES & ADVANTAGES

- > Perfect recyclable mono-material solutions
- > In combination with ETIMEX Convina® PP barrier trays and thermoforming sheets – the perfect mono packaging for a long shelf life
- > Can be heated in the microwave
- > Best PP-based sealing properties
- > Excellent odour and flavour barrier
- > Adjustable peeling strengths for optimum product safety
- > Suitable for pre-fabricated trays or thermoforming applications
- > Top hygiene conditions in extrusion and thermoforming

- > Products optimise your procurement strategy
- > Perfectly matched PP barrier
- > Bundling of orders reduces CO<sub>2</sub> emissions
- > Maximum output on the packaging line
- > Available with a barrier as mono solution
- > PP barrier products: Made in Germany

Inner core diameter: 76 mm  
 Reel diameter: customer-specific  
 Length: customer-specific

ETIMEX PP Convina® tray and ETIMEX LAMISEAL® PP sealing film are registered trademarks of ETIMEX GmbH.

PET DUAL PACKAGING: SEALING FILMS

PROPERTIES & ADVANTAGES

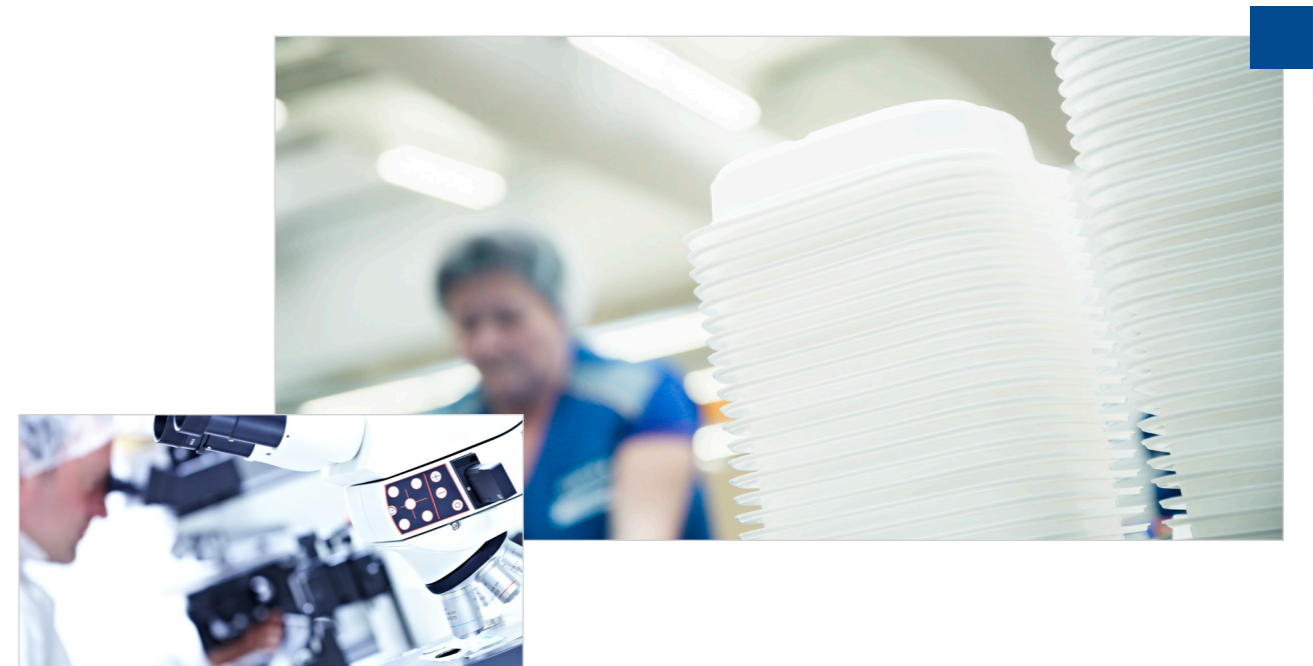
- > Perfect sealing properties
- > High oxygen barrier
- > Aluminium-free
- > Suitable for deep-freezing
- > Peel possible
- > Excellent odour and flavour barrier
- > Suitable for pasteurisation
- > Protects your product from oxygen and moisture
- > Can be heated in microwave and oven, max. 220 °C, 30 min.

Inner core diameter: 76 mm  
 Reel diameter: customer-specific  
 Length: customer-specific

ETIMEX CPET VITESSA® tray and ETIMEX LAMISEAL® PET sealing film are registered trademarks of ETIMEX GmbH.

For more information, please refer to:  
[www.etimex.de](http://www.etimex.de)

**THE PERFECT DUO:  
 TRAY AND SEALING FILMS  
 FROM A SINGLE SOURCE!**



MATERIAL PROPERTIES & APPLICATION AREAS FOR PLASTIC TRAYS

PERMEABILITY COEFFICIENTS FOR PLASTIC FILMS & TRAYS

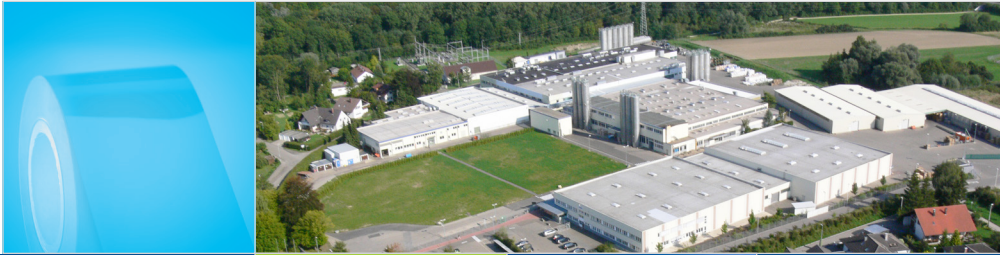
	CPET	APET	PP (mono)	PP (copolymer)	PP-EVOH-PP
Temperature range	-40 °C to +220 °C	-40 °C to +70 °C	+2 °C to +125 °C	-18 °C to +125 °C -40 °C upon request	+2 °C to +125 °C
Heating	Fan oven Microwave Oven	-	Microwave Bain-marie	Microwave Bain-marie	Microwave Bain-marie
Density (g/cm <sup>3</sup> )	1.35	1.33	0.91	0.91	0.95
Colouring (special colours on request)	white black	transparent	white black contact transparent	white black natural	ivory/white white/black contact transparent
Application areas	refrigerated, frozen, pasteurised ready meals	refrigerated ready meals	refrigerated ready meals	refrigerated, deep-frozen ready meals	sterilised, pasteurised ready meals, storage at room temperature
Sealing capability	Suitable for sealing with all common sealing and lidding films.				

		CPET	APET	PP	PP-EVOH-PP
CO <sub>2</sub>	Carbon dioxide	55 – 65	100 – 120	2000 – 3000	1.7 – 10.8
O <sub>2</sub>	Oxygen	15 – 20	25 – 30	520 – 800	0.3 – 2.2
N <sub>2</sub>	Nitrogen	4 – 5	6 – 9	150 – 200	0.1 – 0.5
H <sub>2</sub> O	Water vapour	1.8 – 2.2	2.2 – 2.5	0.5 – 0.7	1.0 – 1.4

TESTING CONDITIONS

- > Gas permeability was measured on a 100 µm thick film at 50% relative humidity according to DIN 53380.
- > Water vapour permeability was measured on a 100 µm thick film with a moisture gradient from 85% to 0% according to DIN 53122.
- > The permeability coefficients for the PP-EVOH-PP film refer to a multi-layer film with a EVOH layer thickness of 25 µm.





UPDATED: 07.2022



## SALES DIVISIONS

TRAYS, CUPS, SEALING FILMS  
TEL.: +49 (0) 7347 67-436  
[trays@etimex.de](mailto:trays@etimex.de)

THERMOFORMING SHEETS  
TEL.: +49 (0) 7347 67-431  
[sheets@etimex.de](mailto:sheets@etimex.de)

FLEXIBLE FILMS  
TEL.: +49 (0) 7347 67-414  
[flexibles@etimex.de](mailto:flexibles@etimex.de)

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TEL.: +49 (0) 7347 67-451  
[purelay@etimex.de](mailto:purelay@etimex.de)

ENVIRONMENT & SUSTAINABILITY  
[sustainability@etimex.de](mailto:sustainability@etimex.de)

## SALES OFFICES

GERMANY-AUSTRIA-  
SWITZERLAND-LIECHTENSTEIN  
(D-A-CH)  
[d-a-ch@etimex.de](mailto:d-a-ch@etimex.de)  
TEL.: +49 (0)152 09257383

BENELUX  
[benelux@etimex.de](mailto:benelux@etimex.de)  
TEL.: +49 (0) 7347 67-435

SCANDINAVIA  
[scandinavian@etimex.de](mailto:scandinavian@etimex.de)  
TEL.: +49 (0)173 3018293

ITALY, SPAIN AND PORTUGAL  
[italy@etimex.de](mailto:italy@etimex.de)  
TEL.: +39 (0)348 8532781

EASTERN EUROPE  
[easterneurope@etimex.de](mailto:easterneurope@etimex.de)  
TEL.: +49 (0)173 3018293

Martin-Adolff-Straße 44  
D-89165 Dietenheim  
GERMANY

TEL: +49 (0) 7347 67-0  
[info@etimex.de](mailto:info@etimex.de)

