



**Biplex®**

## characteristics



economic



reusable



food approved



sterilisable



strong and durable



good rupture and  
tear resistance



ecological



water and  
moisture  
resistant



good chemical  
resistance



light-weight



dust and  
fibre free



washable

## possible processing



cutting



die cutting



welding



bonding



sterilising



recycling



cleaning



stapling



printing

## possible treatments



flame  
retardant



UV stabilizer



antistatic



microperforation



corona  
treatment

### **Biplex®**

corrugated sheet for protective packaging

### **Biline®**

corrugated sheet with online print

### **Biprint®**

corrugated sheet for the printing industry

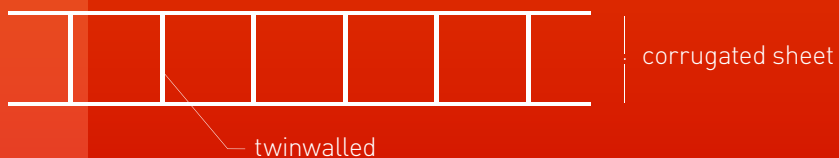
### **Bipack®**

transformed corrugated sheet for packaging

### **Biplex+®**

micro-perforated corrugated sheet for under-roof application

**Biplex®** is an extruded, corrugated sheet, made from polypropylene, offering cost-effective solutions for a wide variety of applications. Compared to other materials such as paperboard, solid plastics or metals, **Biplex®** offers a great number of unique advantages. **Biplex®** helps to crystallize your ideas!



# Biplex®



beam forms



boxes,  
trays, ...

**Bipler®** is the ideal industrial packaging material. It stands out due to its excellent properties and protects your goods better. **Bipler®** is resistant to moisture, greases and most chemical agents. It is naturally strong and tear resistant.

By micro-perforating **Bipler®**, condensation can easily be evacuated.

**Bipler®** is ideal for converting into a wide variety of die-cut shapes, ranging from interlayers with rounded corners to complex foldable boxes. **Bipler®** is perfect for temporary protection. **Bipler®** is extruded from a polypropylene copolymer and is available in sheets or on rolls.

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## possible treatments



flame  
retardant



UV stabilizer



antistatic



microperforation



corona  
treatment

## applications

slip sheets/void boards on wooden pallets, layer pads for bottles or other products, liners for wooden or metal containers, protection of stainless steel and aluminium, concrete beam forms, temporary protection, machine guards, ...





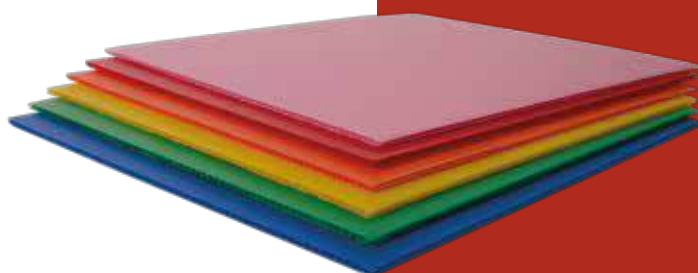


covering  
e.g. machine covering



protection  
of products

Biplex® is available in different colours and with different finishes depending on your requirements.  
Biplex® is available in sheets or on rolls.



More durable than cardboard and completely recyclable.



Corrugated sheet for protective packaging

# Biplex®





flexibility  
Packaging for coils.

**Biline®** offers an extra dimension by printing online a text or logo onto the sheet. **Biline®** is strong and tear-resistant and is not affected by moisture, greases, chemicals,... **Biline®** increases the visibility of your product & brand under all weather conditions. The packaging becomes more than just a wrapping. **Biline®** turns your temporary protection at construction sites into a new medium for your commercial or other messages. **Biline®** is extruded from a polypropylene copolymer, it lasts longer than cardboard and is completely recyclable. **Biline®** is available in sheets or on rolls.



## characteristics



economic



reusable



strong and durable



good rupture and  
tear resistance



washable



online printing  
of your logo / text



ecological



water and  
moisture  
resistant



good chemical  
resistance



light-weight



food approved

## possible treatments



flame  
retardant



UV stabilizer



antistatic



microperforation

## applications

slip sheets/void boards on wooden pallets, layer pads for bottles or other products, liners for wooden or metal containers, protection of stainless steel and aluminium, temporary site protection, site demarcation, packaging for coils, ...





functional

Protection of construction sites.

**Biline®** increases the  
visibility of your  
product in all  
weather conditions.

publicity

Your text or logo is printed online  
during the production process.



Corrugated sheet  
with online print



**Biline®**





**Biprint®** is the ideal printing medium. Its double-sided corona treatment allows easy printing, even for digital printing.

**Biprint®** is resistant to moisture, is strong and light-weight. This makes **Biprint®** the perfect substrate for outside and inside applications. The corona treatment also provides a better adhesion when gluing the sheets to other materials, or when using adhesives.

**Biprint®** can easily be cut or die-cut and can be converted into virtually any shape.

**Biprint®** is extruded from a polypropylene copolymer, it is much more durable than cardboard and is completely recyclable.

## characteristics



economic



reusable



strong and durable



good rupture and  
tear resistance



washable



easily printable



ecological



water and  
moisture  
resistant



good chemical  
resistance



light-weight



food approved



corona  
treatment

## possible treatments



flame  
retardant



UV stabilizer



antistatic

## applications

real estate signs, publicity panels, construction site-boards, temporary signs, displays, POS displays, promotional & merchandising items, ...

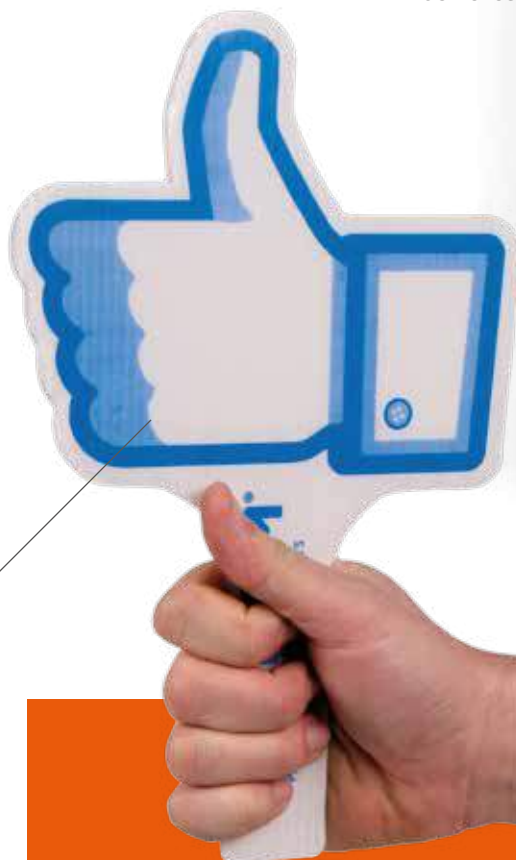






## stock

Biprint® is stocked in a few standard dimensions in order to secure fast deliveries (only white sheets).



promotional items

## signage

Indoor and outdoor.



Corrugated sheet  
for the printing industry

# Biprint®

**Bipack®** offers a whole range of die-cut shapes, from simple trays for food, to complex returnable boxes with grids for high-value car parts.

**Bipack®** is dust and fibre-free, food approved and can be sterilised, which makes it the perfect material for the pharmaceutical, food and electronics industry.

**Bipack®** is durable and can be used over and over again. Our design department translates your specific demand into a unique custom-made design.

**Bipack®** is extruded from a polypropylene copolymer, it is much more durable than cardboard and is completely recyclable.

## characteristics



economic



reusable



strong and durable



good rupture and  
tear resistance



ecological



water and  
moisture  
resistant



good chemical  
resistance



light-weight



washable



sterilisable



dust and  
fibre free



food approved

## possible treatments



gamma ray stabilizer



UV stabilizer



antistatic



microperforation

## applications

boxes, trays, lids, bottoms, displays, warehouse boxes, grid dividers, flanges, tree guards, boxes for sterilization, automotive packaging, medical packaging, food & agricultural packaging, promotional items, container liners, ...

tree guards



American box

IPB's design department translates your specific demand into a unique custom-made design.



keg protector



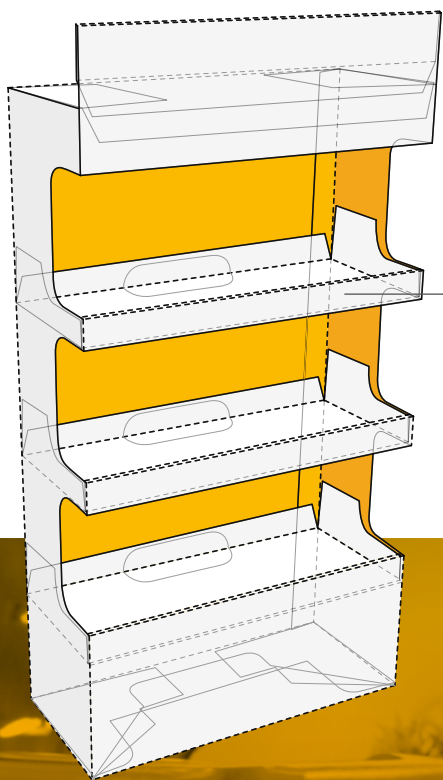
Transformed corrugated sheet for packaging

food approved (FDA)



# Bipack®





shop displays

complete solutions

layer pads

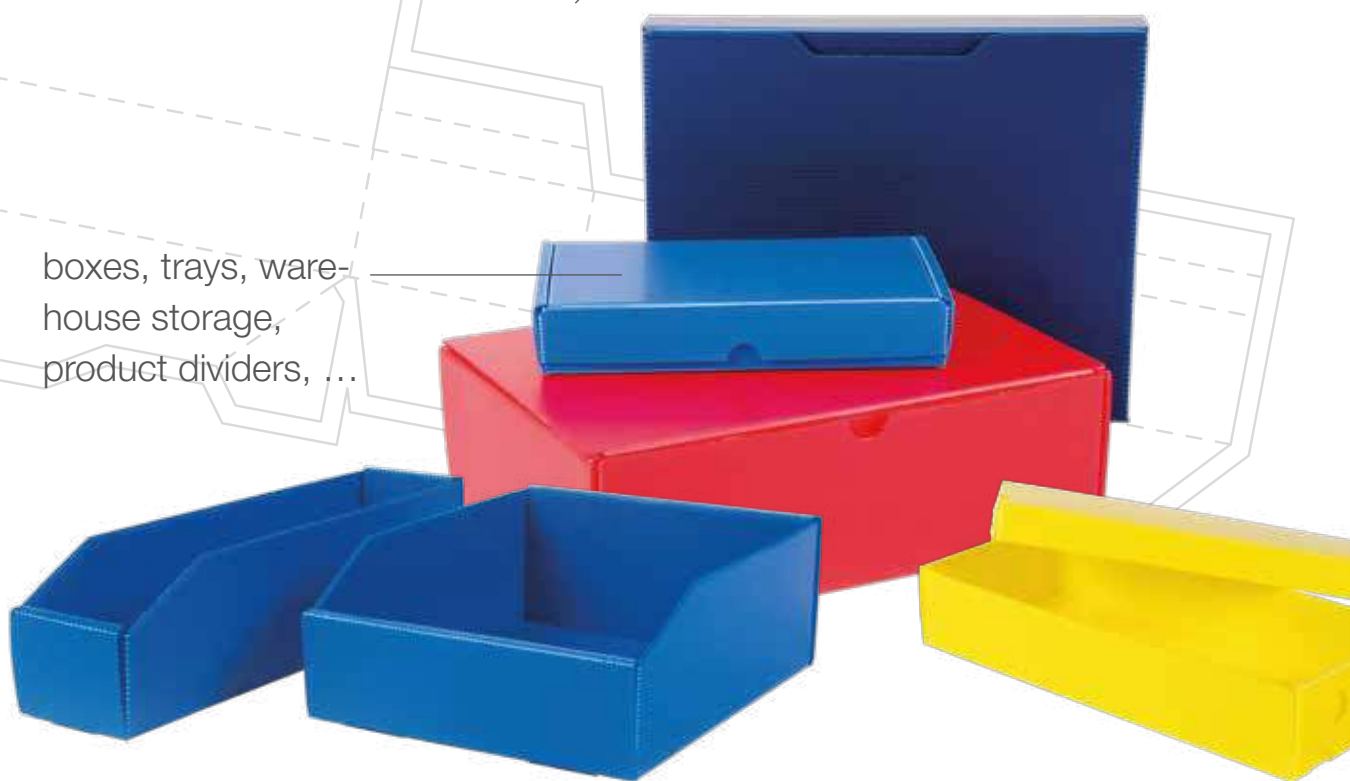






pharmaceutical  
applications

boxes, trays, ware-  
house storage,  
product dividers, ...



**Bipack®**



microperforation

Thanks to the double-sided and numerous micro-perforations (25/m<sup>2</sup>), **Biplax+®** guarantees a quick and efficient disposal of condensation. (*Water permeability tested accordingly EN 1928, result class W1*).

**Biplax+®** guarantees better ventilation under your roof through the efficient disposal of moisture and vapour. Because of the microscopic small perforations, **Biplax+®** guarantees good water permeability.

**Biplax+®** is flame-retardant according to EN 13501-1, result class E.

**Biplax+®** is made of polypropylene copolymer and is completely recyclable (class 5).

**Biplax+®**, the 'insulating' under-roof sheet that 'breathes'. Through its double-sided structure, Biplax+® offers additional acoustic and thermal insulation.

**Biplax+®** has ATG approval as under-roof sheet (certificate ATG 1926) and has the European CE label with CE EN 13859-1 approval.

Detailed installation  
guidelines can be  
found on our website:  
[www.iplast.be](http://www.iplast.be)



**Biplex+®**, swiftly onto your roof!

- can be cut easily on the roof instead of at ground level.
- irregular forms can be covered seamlessly (e.g. dormer).
- can be simply nailed or stapled.
- 1 person can manipulate and install the sheets.
- installing takes up to 40% less time than conventional materials.
- is available in sheets or rolls in order to minimize waste.

Micro-perforated  
corrugated sheet for  
under-roof application

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**Biplex+®**

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resistance



light-weight



dust and  
fibre free



washable

## possible processing



cutting  
guillotine,  
manual, plotter



die cutting



welding  
thermal, ultrasonically,  
hot air



stapling



printing  
screen printing,  
digital, ...



bonding



recycling

## possible treatments



flame  
retardant



UV stabilizer



antistatic



microperforation



corona  
treatment



gamma ray  
stabilizer





# Material properties

**Biplex®** is made of a polypropylene – polyethylene copolymer. This raw material has numerous advantages and is therefore used in a wide range of applications. For certain applications the use of specific additives is needed. The most important are:



**UV stabilizer:** Biplex® is suitable for outdoor use, however the long term and continuous exposure to sunlight will degrade Biplex® at an accelerated pace. In order to slow down this process, a UV stabilizer additive is added. This stabilizer makes sure Biplex® can be used outside without any trouble.



**Anti-static:** Biplex® is a plastic sheet and has the characteristic of acquiring an electric charge caused by friction. This electric charge causes sheets to stick together and dust is attracted very easily. To avoid this electric charge, an anti-static additive can be added. With this additive, sheets become more easily manageable.



**Flame retardant:** Biplex® is a plastic sheet, hence flammable. Flame retardant additives can be added to make the sheets self-extinguishing: once the flame is taken away, the burning sheet will self extinguish.



**Corona:** Biplex® has a low surface tension which makes it hard to print or bond the sheets. The ink or glue will adhere very badly. By applying a corona treatment to the sheets, the surface tension is increased and the sheets become easily printable and well suited for bonding.

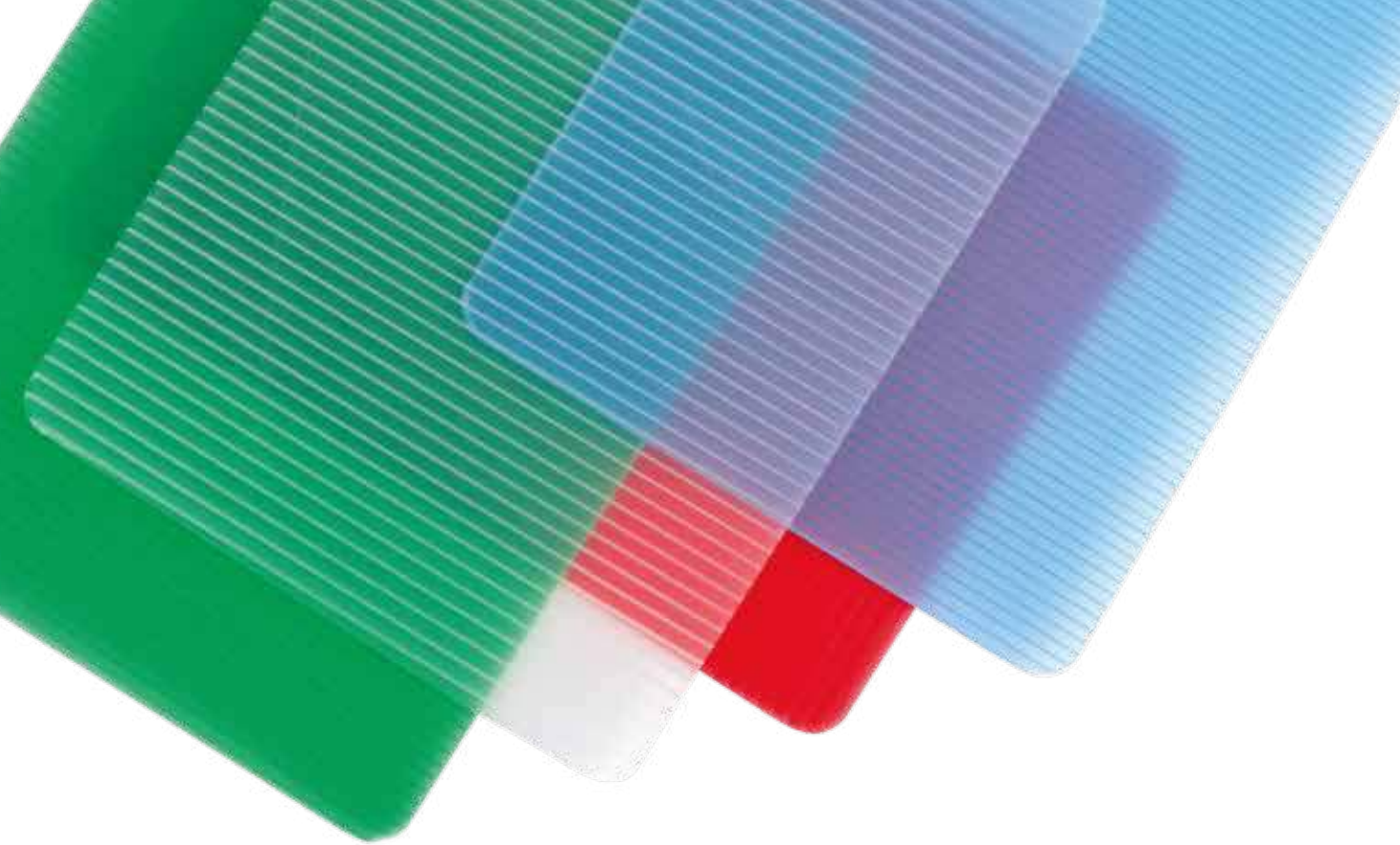


**Gamma ray stabilizer:** Sterilization can be done in 2 ways: steam sterilization with ethylene oxide or with gamma rays. Biplex® endures seamlessly multiple cycles of steam sterilization. When using gamma sterilization, however, an additive has to be added to prevent the material from becoming brittle.

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# Biplex®





Biplex® is available in different standard colours. Specific colours are available upon request.  
Biplex® can be cut-to-size in sheets or on rolls.

## standard colours



Additional product information and detailed processing instructions can be found on our website: [www.iplast.be](http://www.iplast.be)

**Industrial Plastics Belgium** (I.P.B. nv) was founded in 1984 and is specialised in the extrusion of high quality plastic sheets. Continuous investments in high-tech extrusion plants and the ongoing research and development have brought us the possibility to supply our customers with high quality and competitive products.

A drive for innovation, entrepreneurship, open communication and a no-nonsense policy are core values that made I.P.B. grow into one of the market leaders in its sector. Quality is key at I.P.B., High quality products are the result of thoughtful quality standards and sophisticated procedures. Our company is therefore ISO 9001 certified since 1996.

I.P.B. values the environment! Optimal use of energy, water recuperation, re-granulation and the re-extrusion of our waste causes our production process to have a minimal environmental impact. Customer satisfaction together with an eye for details, are decisive factors at I.P.B. With this we guarantee our customers an ultimate service. Devoted personnel and accurate deliveries to all corners of the world form the most reliable cornerstones for our organisation. We have the knowledge and are at your service to satisfy your future challenges and desires ...



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