

# the Fourth dimension

COATED POLYOLEFIN MEDIA FOR GRAPHIC AND PRINTING



⊕ Packaging & Graphic sheets

a division of  **EXTEN**



PRIME-EX is a milestone in the evolution of polypropylene sheets, its fourth dimension: properties unknown to this material can be transferred to it through a surface coating that will not modify its mechanical characteristics. With such a target Exten SA developed a process that enables to produce in one step, extrusion and coating in line, substrates that meet the most demanding requirements of the offset UV print.

Nowadays major printers of horticultural labels appreciate PRIME-EX TAG, a ready to print substrate where improved ink-adhesion and absolute water resistance can be tested immediately after printing and OPV. Excellent print-adhesion, never before seen on gloss material, and its non-blocking properties have made PRIME-EX GLOSS the partner of most manufacturers of luxurious packaging. As remarkable advantage PRIME-EX has an extended shelf life for printability.

**Available in:**

- MATT
- FINE
- H2O
- SATIN
- GLOSS

**ADVANTAGES**

- Perfect print adhesion on surface, creasing lines, and die-cutting edges (tape test)
- Water resistance
- Good scratch resistance
- Good antiblocking properties with little powdering
- Primed for printing on both sides



Receptive of the demand of the graphic industry for clean, environment-friendly polymers, EXP pushes forward the limit of polypropylene by formulating grades that can technically equal HIPS and PVC in special segments of the printing industry. The PRIME-EX concept, declined on the superior mechanical properties of these substrates, makes them all the easier to print.

**HMPP** is a high module grade of PP substrate for flower tags and plastic cards (phone cards, scratch cards...). A large scope of advantages makes it an alternative to HIPS.

- ▶ Lower impact on the environment with 46% carbon footprint less than HIPS.
- ▶ Equal rigidity module (1900 Mpa), and in the meantime higher tear-resistance.
- ▶ Slow ageing: HMPP keeps higher elasticity and stable white colour.
- ▶ High ink-adhesion and superior water-resistance: HMPP is a PRIMEX product.
- ▶ Easy die cutting with usual machinery.
- ▶ 12% lower density compared to HIPS, giving a higher yield.

**ECOCARD** is a superior polyolefin substrate designed for ISO standard plastic cards, where ECO stands for ecological and economical.

- ▶ Highest rigidity module (2400 Mpa).
- ▶ Primer coating on both sides for perfect ink adhesion before PET lamination or OPV.
- ▶ Possibility to laminate with PET and magnetic stripe.
- ▶ ECOlogical: PP is a 100% recyclable polymer, with low carbon footprint
- ▶ ECOnomical, due to its low density (1,03 kg/dm<sup>3</sup>).

**Available in:**

- FINE
- SATIN

Product	Embossing	Colours
MATT	matt/matt	all colours
FINE	matt/satin	white/natural
H2O	satin/gloss	clear
OPAQUE	matt/matt	opaque white
GLOSS	gloss/gloss	clear
ORANGE	matt/orange	all colours
ICE	quartz/gloss	transparent colours
DIAGONAL	diagonal/gloss	transparent colours

## PRINT-EX™



### Available in:

MATT

FINE

H2O

OPAQUE

### SHELF LIFE

Silk-screen printing | up to 6 months

Litho | up to 3 months

Traditional PP substrates for the printing and packaging industry.

A selection of embossing suitable for the silk-screen and litho printing, UV or traditional, with custom-made thickness and sizes in order to minimize the waste of your production processes.

The range includes different degrees of transparency - from clear to natural - and various shades of white, up to the total opacity for double side printing. Together with a durable corona treatment PRINT-EX guarantees constant quality and repeatability from batch to batch.

## ART-EX™



### Available in:

MATT

ORANGE

ICE

DIAGONAL

A colourful and cheerful line of PP sheets designed for the promotional stationery and presentation market.

Various embossings, solid and transparent colours, thickness and sizes make sure you will find what you need for your project. Custom made colours are possible as well.

ART-EX substrates are soft, non-whitening and suitable for converting technologies used for the production of presentation items, such as die cutting, hot stamping, punching, stitching, riveting and more.

ART-EX products can be surface-treated with an anti-bacterial coating for stationery items for clinics and hospitals.

## EX P<sup>TM</sup> vision



### Available in:

MATT

FINE

QUARTZ

EX P Vision is a complete range of polyolefin media developed for the visual communication market, designed to be printed on large format UV ink-jet flat bed printers. The products from EX P Vision are coated on one or two sides in order to improve ink adhesion, water and scratch resistance.

**FLAG:** soft, flexible, totally opaque. This media is the ecological alternative to vinyl in the printing of flags and banners for indoor applications.

**BACK-LIT:** the PP molecular structure offers a superb light diffusion, the smoothest printable surface allows sharpness of details and high resolution. Suitable for expo-lighting systems and illuminating posters.

**BANNER white:** media for single side printing. Scratch resistant, it is the ideal media to print roll-ups and displays that need to endure frequent folding.

**BANNER opaque:** a combination of White/Black/White layers make this polyolefin media a total barrier to light. It can be therefore printed front and back for applications like advertisement banners visible on both sides.

**SIGN:** the universal media for signage, useful in any type of large-format projects.

**PROTECT:** the excellent contact clarity makes this material the perfect protection screen for advertising displays in sales points, on counters, in- and outdoor. UV-stabilised, it withstands greases.

For more information about the complete range for UV-inkjet, Indigo, MGI digital media, please consult our web page or contact us.

### Features

thin grain effect on both sides

smooth satin on one side, for sharpness of details

windows can be created by transparent varnish

totally opaque, also against light

excellent clearness, anti-blocking, primed for printing on two sides

thick grain to offer better scratch resistance

quartz effect for good colour depth

high clearness, decorative diagonal lines



# EX P for the environment

Polypropylene is a polyolefin with low carbon footprint (CO2 emission during its life cycle) and 100% recyclable. As extruding company EX P offers the market three different solutions to reduce the impact of plastics on the environment.

## EX P GREEN

EX P as producer and transforming companies closely cooperate to establish a virtuous circle and reduce material waste. The customer separates and stores its scrap dry and clean; EX P buys it back and makes out of it a new, 100% recycled product. The quality level exclusively depends on the environmental awareness of the customer and its operators.

## PRIME-EX TAG GREEN

It is a polypropylene co-extruded sheet, where 75% comes from selected recycled material. The top layer is obtained from virgin blend and then primer-coated, to allow colour lytho printing in the most demanding applications.



## OXO BIODEGRADABLE

A new formulation of polyolefins designed for the horticultural market, where labels are often dispersed in the environment (gardens, green gardens, compost...). Slowly becoming brittle in a controlled reaction by exposure to light and air, after twelve months labels can be attacked by bacteria and degrade within three years.

For additional information, technical explanations and data sheets we invite you to visit the section EX P FOR THE ENVIRONMENT in our web page.

Certified Quality System  
UNI EN ISO 9001:2008 SQS  
Since 1993

## The Company

Exten SA is a Swiss company producing polyolefin films, laminates and sheets located in the South of Switzerland, near the Italian border. Established in 1981, the company has constantly grown to reach a turnover of Euro 43 mil. (2008) with approximately 100 employees.

EX P, our division extruding polypropylene sheets, started in 2005 thanks to relevant investments in state of the art extrusion lines and the know-how of long experienced technicians. Believing in the development of technically advanced, performing, as well as environment-friendly products, EX P is bringing innovation to the market of sheets for the graphic and printing industry.

At EX P we know how customers rely on our products, therefore customisation, precision and excellent service are integral part our concept of quality.



Z.I.3 | 6850 Mendrisio | Switzerland  
Tel. +41 91 6400050 | Fax. +41 91 6400055  
info@exten.ch | www.exten.ch

