

Axipack, the European leader in the extrusion of recyclable polypropylene sheets and rolls, offers its wide range of ViPrint for use in graphic and industrial arts applications.

## The Collection

ViPrint **crea**  
PART OF epsco



Mainly intended for the **promotional communication and Visual applications markets**, the ViPrint Eclipse collection has guaranteed opacity of 100% from the thickness 0.30 mm.

Thanks to its excellent opacity and two-sided fine sand surface appearance, the result of your single or double sided printed items will be improved over standard PP materials. Eclipse is **THE** right solution for your display applications such as single or double sided signs, display stands, posters, etc.

ViPrint Eclipse white 1170 is available in fine sand embossing (G01) **from 0.30 mm to 1.20 mm** and **from 1,000 kg** minimum order size. Available from **stock service** (thickness 0.30mm).

Due to its formulation and processing characteristics, such as the double sided corona surface treatment, ViPrint can be printed using **UV offset, traditional and UV screen printing, and digital UV.**

### ViPrint, is...

- ▶ ... An innovative range offering outstanding characteristics, exceptional finishes, flexible, tough, durable, lightweight, strong, resistant to water and many chemicals, rigid, flexible and recyclable,
- ▶ ... An attractive material which can be folded, creased, cut, welded, riveted, perforated, glued, printed, sewn or embossed,
- ▶ ... A huge choice of products for small or large production runs, innovative designs and multiple applications.

## Colour range

CREA



White 1170

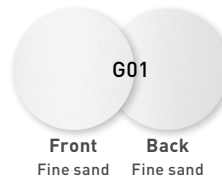
## Thickness (µm) – Density

Thickness	Density
300 to 1,200	0.94

## Production Minimum

	Standard size	XXL size
Order min (kg)	1,000	1,000
Campaign min (kg)	3,000	3,000

## Embossing



## Dimensions (mm)

Embossing	Thicknesses	Width	Length
G01	0.30 to 1.20	1,000 to 1,200	700 to 1,800
G01 XXL	0.30 to 1.20		1,801 to 2,050

\* XXL sizes (> 1 800mm)

## Services

> ViPrint Eclipse G01 is available on stock service catalogue, with D+1 departure:

**Direct Line:** +33 (0)3 21 61 66 66 - [stock.service@axipack.fr](mailto:stock.service@axipack.fr)

Colour	Thickness (mm)	Size (mm)		Packaging	
		700 x 1,000	1,200 x 2,050	Multiple sheets	Sheets/Palletised
White 1170	0.30	x	x	x	x

- > Cutting Service for edge trimming
- > Cutting Service for your specific dimensions
- > Cutting Service for non standard dimensions: xxs and XXL available

+33 (0)3 21 61 66 66 - ask the customer service

## 1. Product characteristics - Environment

- Sheet composed predominantly of polypropylene, polyethylene and an antistatic additive, plus colourant if required.
- Recyclable sheet, whose composition complies with the REACH regulation.
- Treated corona 2 sides, suitable for UV offset printing, traditional and UV screen printing, UV digital printing.
- Options when ordering are trimmed square sheets – guillotine or specific (width specification, xxs, XXL) or UV treatment.
- Halogen-free, ozone-depleting substances, are without phthalate.

## 2. Surface finish & Production Minimum

Embossing	G01
Front	Fine sand
Back	Fine sand

	Production minimum * (kg)	Campaign * (kg)
Standard size	1,000	3,000
xxs size	1,000	3,000
XXL size	1,000	3,000

\*Per size/thickness/color  
xxs / XXL costs: consult us

## 3. Dimensions characteristics

### 3.1. Extrusion

a/ Available sizes

Thickness (µm)	300	1,200
Width (mm)	1,000 - 1,200	
Length (mm)	700 - 1,800	

b/ XXL dimensions (length > 1,800 mm)

Thickness (µm)	300	1,200
Width (mm)	1,000 - 1,200	
Length (mm)	1,801 - 2,050	

xxs dimensions: consult us  
Specific width: consult us

c/ Dimensional tolerances

	Unit	Min	Max
Thickness	µm	-20	+20
Width	mm	0	+5
Length	mm	0	+5
90° Angle	mm	0	+3
Sheet flatness (front/back)	mm	0	+5
Flatness across sheet	mm	0	+5

Tolerances are based on our standard sizes specifications.

The following tolerances apply to normal operating conditions (around 20 °C).

In the case of any change of temperature, ViPrint (as all thermoplastics) may show tolerances variations (due to thermal expansion).

## 3.2. Square cut

a/ Available sizes

Thickness (µm)	350	400	800
Width (mm)	500 - 1,250	500 - 1,300	
Length (mm)	700 - 1,300	700 - 1,300	

b/ Dimensional tolerances

	Unit	Min	Max
Thickness	µm	-20	+20
Width	mm	0	+1
Length	mm	0	+1
90° Angle	degree	-0.2	+0.2
Angle in mm	mm	0	+1

Tolerances are based on our standard sizes specifications.

The following tolerances apply to normal operating conditions (around 20 °C).

In the case of any change of temperature, ViPrint (as all thermoplastics) may show tolerances variations (due to thermal expansion).

Cutting service: consult us

## 4. Mechanical properties

Properties	Method	Unit	Value
Specific weight Thickness ≥ 0.30 mm		g/cm <sup>3</sup>	0.94
Modulus of elasticity (Young)	ISO 527-2	Mpa	ND
Tensile Strength	ISO 527-2	Mpa	ND
Yield strength	ISO 527-2	%	ND
Izod impact	ISO 180	kJ/m <sup>2</sup>	ND
Surface tension (2 sides)	-	dynes	46 <sup>(1)</sup>
Coefficient of Thermal expansion	-	K <sup>-1</sup>	1.5 10 <sup>-4</sup>

Value relates to material in 500µm.

<sup>(1)</sup> At the time of manufacture, value reduces with time.

## 5. Adhesion and preparation characteristics

	UV Litho	UV Digital	Traditional, UV Screen
Compatibility	√	√	√
Printability guarantee White 1170	3 months *	3 months *	6 months *

\*From the date of production.

## 6. Recommendations

### Storage:

- Always stock the sheets at room temperature to avoid risk of condensation (e.g. sudden changes of temperature from hot to cold or vice versa) and to avoid physical distortion due to extreme hot or cold.
- Store in its original packaging, protected from light, dust, air and moisture, at a temperature close to 20 °C in order to preserve the surface treatment.
- Do not stack pallets.

### Preparation:

- Before conversion, keep the sheets at ambient room temperature for 24 to 48 hours to allow full acclimatisation and to avoid risks of condensation or physical distortion due to extreme hot or cold temperatures.
- The lot number attached to each pallet is to be kept on file should you have a quality or technical question regarding this delivery.

### Printing:

- The surface tension (Dyne level) will decrease with moisture content and over time. To preserve the corona treatment dyne level please store sheets in their original packaging and store away from damp or dusty environments.
- Check corona level and production date before processing.
- Pre-test the printability of the substrate and process according to the recommendations of the ink suppliers (in particular on the compatibility of polypropylene inks and the required surface tension).
- To protect the ink against abrasion, we recommend that you apply a protective varnish.
- Chevrons are possible, visible on one face and on certain colours.

### Embossing:

- Use suitable polypropylene films.

### Cutting and creasing:

- Before cutting, leave the sheets at room temperature between 24 and 48 hours to stabilise the temperature at the core of the pallet to avoid cracking or breaking of the sheet.
- On cutting boards (manual or automatic), sheet thicknesses from 0.30 to 1.00 mm are cut and cold-grooved. For the higher thicknesses, hot creasing is recommended.
- Use cutting knives suitable for cutting polypropylene to avoid breakage and cracking.
- Half-cut or double-groove blades improves the hinge effect and reduces rounding of the fold.

### Trimming:

- Thin sheets can be cut on the traditional cutter with a double-edged blade.
- For thicknesses over 0.80 mm, cutting can cause burrs, filaments and angel hair.

### Assembly:

- The sheets can be welded by ultrasound or hot air (depending on the thickness) or assembled with PUR glue.
- Use adhesives suitable for polypropylene.
- Under certain conditions, inks, glues or other components in contact with polypropylene may react and cause deformation of the sheet. Prior testing is required to ensure compatibility with polypropylene.

### Thermoforming:

This product is not recommended for thermoforming.

## 7. Compliance

The raw materials used meet the following directives and standards:

Colour	Toy Standard EN71/3	94/62 Directive	2002/95/EC RoHS - DEEE Directive	SVHC REACH 1907/2006/EC	UE N°10/2011 Directive
Blanc 1170	√	√	√	√	√

### Toy standard EN 71/3:

Toy standard EN71 part 3 for toys.

### 94/62 Directive:

European Directive 94/62/EEC as amended by Directive 2004/12/EC, supplemented by the decision of the Committee 2005/20/EC limited to 100 ppm heavy metals in plastic packaging for Member states of the EU.

### RoHS - DEEE Directive:

RoHS - DEEE Directives 2002/95/EC concerns, 2002/96/EC and 2003/11/EC transposed in French law by Decree 2005-829 of 20/07/05, as amended by Directives 2005/71/EC, 2005/618/EC and 2011/65/EU to the restriction of certain components in electrical appliances.

### REACH:

- Free of substances listed in the Candidate List update at the date of creation of this product data sheet.
- Free of (substances subject to authorisation (Annex XIV amended by Regulation 17/02/2011 N143/2011 and N125/2012 Regulation of 14 February 2012).
- Free of restricted substances (Annex XVII amended by Commission Regulation N ° 552/2009, No. 494/2011, No. 109/2012 and No. 412/2012).

### EU N°10/2011 Directive:

EU Regulation N° 10/2011 of 14 January 2011 as amended by EU Regulation N° 1183/2012 of 30/11/2012 and by the EU Regulation N° 1282/2011 of 28/11/2011 and N° 321/2011 Of 02/04/2011. This Regulation repeals Directive 2002/72/EC on plastic materials and articles intended to come into contact with foodstuffs.

Please request this information with order.

**Disclaimer:** The information contained in this leaflet is based on our present technical knowledge and experience. In view of the large number of factors that may influence the processing and use of our products, the information does not relieve the processors and manufacturers of the need to carry out their own tests and experiments. Our information does not constitute a legally binding assurance of product availability, of particular properties or of a suitability for a particular use. Patent rights that may exist must be duly observed.