

ViPrint
PART OF epsco

Axipack, a leading European producer of extruded polypropylene sheets and reels, offers its extensive range of ViPrint suitable for graphic arts and industrial applications.

The **TONIC** Collection

The **Tonic** Collection is characterised by its **distinctive fluorescent colours**.

Tonic is now available in **fine sand / sand (G02) and glossy / sand (G04)**.

The collection is available on production **from 500 kg**.

The sheets are corona treated on both sides, allowing **UV offset, traditional and UV screen and UV digital printing**.

The **Tonic** Collection meets the needs of markets:

- Promotional communication;
- Signage and display;
- Labelling;
- Promotional packaging;
- Stationery.

Low density, light, flexible and durable light, flexible and resistant, it is ideal for applications such as: suitcases, personalised folders, promotional items, small point-of-sale displays, promotional stationery, pockets, dividers, shelf-stoppers, card, reinforcement...







ViPrint crea
PART OF epsco



ViPrint, is...

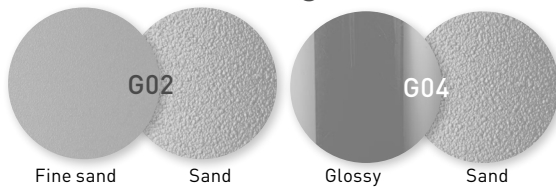
- ▶ ... an innovative range offering outstanding characteristics: exceptional finish, flexible, tough, durable, light, strong, resistant to water and many chemicals, rigid, pliable, recyclable ;
- ▶ ... an attractive material which can be folded, creased, cut, welded, riveted, perforated, glued, printed,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

Colour range

CREA			
	Green 6311		Orange 3312
	Blue 5211		Pink 4310
	Purple* 5311		Yellow 2310

All colours are available in G02 and G04, except *Purple 5311, in G02 only.

Surface Embossing



Services

- > Service sheets cut square
- > Service special sheet sizes made to order
- > Service special: xxs and XXL sheet sizes available on request



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

Thickness (µm) - Density

Thickness	Density
400	0.93
410 to 800	0.92

Dimensions (mm)

Width	Length
600 to 700	700 to 1,400
600 to 800	1,801 to 1,600*

*Sheets XXL (> 1,800,mm). Sheets XXL and xxs range: On request.

Minimum Order Quantity

	Standard size
MOQ (kg)	500
Campaign Min. (kg)	3,000

1. General characteristics of the product – Environment

- Sheet consisting mainly of polypropylene, polyethylene, antistatic agent, and colourant
- Recyclable sheet, the composition of which complies with the REACH regulations
- 2-sided corona treated, suitable for UV offset printing, UV screen printing and UV digital printing
- Halogen-free, ozone-free, phthalate-free

2. Surface aspects & minimum manufacturing quantities

Grain	G02	G04
Front	Fine sand	Glossy
Back	Sand	Sand

	Format standard
MOQ (kg)	500
Minimum campaign (kg)	3,000

*Per thickness / sheet size / colour

3. Dimension Tolerances

3.1. Extrusion

a/ Available sheet sizes

Thickness (µm)	400	500	800
Width (mm)	600 - 700	600 - 800	600 - 800
Length (mm)	700 - 1,400	700 - 1,600	700 - 1,600

Special widths: On request

b/ XXL Dimension (Length > 1,800 mm)

Contact us.

Thickness (µm)	800	2,000
Width (mm)	900 - 1,400	
Length (mm)	1,801 - 2,200	

Sheet size xxs: On request - Special widths: On request

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 given in relation to the nominal ordered sheet size.

The following tolerances are given under normal conditions of use (around 20 °C).

When subjected to temperature, ViPrint (like all thermoplastics) can see these tolerances become larger (expansion phenomenon).

3.2. Square cut

a/ Available sizes (Post cut)

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

b/ Dimensional tolerances (Post cut)

	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 ≤ 0.400 mm Thickness ≥ 0.410 mm	—	g/cm ³	0.93 0.92
Tensile strength (Youngs Modulus)	ISO 527-2	Mpa	ND
Tensile strength	ISO 527-2	Mpa	ND
Elasticity	ISO 527-2	%	ND
Impact strength Izod	ISO 180	kJ/m ²	ND
Surface tension both sides	—	dynes	46 ^[1]
Coefficient of thermal expansion	—	K ⁻¹	1.5 10 ⁻⁴

Value relates to material in 500 µm. ^[1] At the time of manufacture, value reduces with time.

5. Adhesion and preparation characteristics

	UV Litho	UV Digital	Traditional, UV Screen
Compatibility	√	√	√
Printability guarantee	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	EN 71/3 Toy Standard	94/62 Directive	2002/95/EC RoHS - DEEE Directive	SVHC REACH 1907/2006/EC	UE N°10/2011 Directive
Blue 5211	✓	✓	✓	✓	✓
Purple 5311	✓	✓	✓	✓	✓
Green 6311		✓	✓	✓	
Yellow 2310		✓	✓	✓	
Pink 4310		✓	✓	✓	
Orange 3312		✓	✓	✓	

EN 71/3 Toy standard:

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.