



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

ViPrint Inter G02 - G04

ViPrint Inter, the ideal solution for Slip sheet type applications, pallet spacers, reinforcement of trolleys and mesh trays, shelves for shelving...

ViPrint Inter is particularly suitable for transport and handling trays for food, wine, & industrial applications...

This polypropylene sheet is ideal for interlayers and reinforcements applications.

Slip sheet application:

- Interlayer sheets substituting the use of wooden pallets
- The material is easy to use & it allows an optimised and economical stacking solution, thus protecting the environment
- Avoid the use of expensive fireproof pallets, without risk of contamination by the splinters and dust of a traditional wooden pallet
- Optimises your storage space, and loading capacity
- An option of "rounded corners" or diagonally cut on request
- Another option of "UV treatment" to optimise outdoor use

ViPrint Inter is has:

- Good resistance to tearing
- Resistance to moisture, oils and chemical agents
- Recycling capacity as it is washable
- Embosses G02 (fine sand - sand) and G04 (glossy - sand) available

ViPrint Inter is available from 0.30 - to 2.00 mm as well as in XXL & XXS sheet sizes.

Custom manufacturing to your sheet size and thicknesses from 500 kg.

Available in a choice of 8 colours including natural.



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

«Inter» range							
	Natural 0000		White 1155		Blue 5160		Green 6175
	Orange 3130		Red 4210		Grey 8127		Black 9170

Other standard colours: On request

Grains

Embossing	Top	Bottom
G02	Fine sand	Sand
G04	Glossy	Sand

Thickness (µm) - Density

Thickness	Density
300 to 400	0.93
410 to 2,000	0.92

Dimensions (mm)

Width	Length
500 to 1,400	600 to 1,800
900 to 1,400*	1,801 to 2,200*

*XXL sizes (>1,800mm)

XXL and XXS sizes: consult us

Production Minimum

	Standard size	XXL size	UV Treatment
Order min (kg)	500	1,000	1,000
Campaign min (kg)	-	1,000	1,000

Services

> ViPrint Inter G02 Available from stock service, shipped within 24 hours from day of order:

Direct line : +33 (0)3 21 61 66 65 - stock.service@axipack.fr

Colour	Thickness (mm)	Sizes (mm)			Packaging	
		700 x 1,000	650 x 1,100	800 x 1,200	Packet wrapped	Sheets palletised
Natural 0000	0.30	x			x	x
	0.50	x	x	x	x	x
	0.80		x	x	x	x
	1.20		x	x	x	x
White 1155	0.30	x			x	x
	0.50		x	x	x	x
	0.80		x	x	x	x
	1.20		x	x	x	x
Black 9170	0.50			x	x	x
	0.80		x	x	x	x
	1.20		x	x	x	x

> Standard colour service: matching service with a minimum of 1,500 kg

> Special Formulation service UV protection, etc.

> Cutting Service for non standard dimensions: XXS and XXL available

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

Axipack SAS

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 S.A.S au capital 1 591 625 € | RCS Arras 397 704 339 | SIRET 397 704 339 00027 | APE 2221 Z | N° TVA FR31 397 704 339

1. Product characteristics - Environment

- Sheet composed of a formulation based on polypropylene, polyethylene and an antistatic additive, plus colourant
- Recyclable sheet, whose composition complies with the REACH regulation
- The "Inter" range is halogen-free, ozone-depleting substances, are without phthalate

2. Surface finish & Production minimum

Embossing	G02	G04
Top	Fine sand	Glossy
Bottom	Sand	Sand

	Production minimum * (kg)	Campaign * (kg)
Standard size	500	-
XXS size	1,000	1,000
XXL size	1,000	1,000
UV treatment	1,000	1,000

*Per size/thickness/colour
XXS / XXL costs: consult us

3. Dimensions characteristics

3.1. Extrusion

a/ Available sizes

Thickness (µm)	300	500	800	2,000
Width (mm)	500 - 1,250	500 - 1,400	500 - 1,400	
Length (mm)	600 - 1,800	650 - 1,800	500 - 1,800	

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

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

c/ Dimensional tolerances

	Unit	Min	Max
Thickness	µm	-20	+20
Width	mm	0	+5
Length	mm	0	+5
Angle 90°	mm	0	+3
Sheet flatness (top/bottom)	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).

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3.2. Square cut

a/ Available sizes (Post cut)

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

b/ Dimensional tolerances (Post cut)

	Unit	Min	Max
Thickness	µm	-20	+20
Width	mm	0	+1
Length	mm	0	+1
Angle 90°	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).

4. Mechanical properties

Properties	Method	Unit	Value
Specific weight 0.300 mm Thickness ≥ 0.410 mm	-	g/cm ³	0.93 0.92
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 ²	ND
Surface tension (double-sided)	-	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	UV Screen
Compatibility	√	√	√
Printability guarantee	3 months*	3 months*	6 months*

*From the date of production.

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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 hairs.

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.

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7. Compliance

The raw materials used meet the following directives and standards:

Colour	Toy Standard EN 71/3	94/62 Directive	2002/95/EC RoHS - DEEE Directive	SVHC REACH 1907/2006/EC	UE N°10/2011 Directive
Natural 0000	√	√	√	√	√
White 1155	√	√	√	√	√
Orange 3130	√	√	√	√	√
Red 4210	√	√	√	√	√
Blue 5160	√	√	√	√	√
Green 6175	√	√	√	√	√
Grey 8127	√	√	√	√	√
Black 9170	√	√	√	√	√
Other colours	Consult us				

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.

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