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SCHOELLKOPF

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AXPRINT® | PP-Platten**

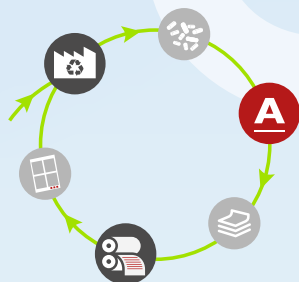
NEW!

Aware of environmental issues and of its responsibility as a manufacturer, Axipack is fully committed to sustainable development by starting its transition to a more virtuous model.

To meet this objective, ViPrint™ is now available in two new ranges incorporating a large proportion of recycled materials.

ViPrint™ **eco**

The formulation incorporates 20 to 80%
post-industrial recycled material



ViPrint™ **eco+**

The formulation incorporates 20 to 80%
post-consumer recycled material (from marine litter)



Products bearing these labels are now **recyclable** and **recycled**.
Welcome to the circular economy!



On the occasion of the launch of our eco responsible products and with a view to harmonising our offer, our "original" range is now named :

ViPrint™ **crea**

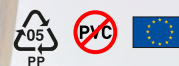


ViPrint™

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 Color Collection

ViPrint™ **crea** ViPrint™ **eco** ViPrint™ **eco+**



The **Color** Collection is available in a large choice of **very attractive opaque standard colours**, in **G02 embossing**.

Color is available in ViPrint™ **CREA** (original range in recyclable PP), in ViPrint™ **ECO** (incorporating 20 to 80% post-industrial recycled material) and in ViPrint™ **ECO+** (incorporating 20 to 80% post-consumer recycled material).

Color is available in **stock service** and on production from 500 kg. UV treatment on request.

Sheets are processed with corona treatment on both sides, allowing **offset printing UV, traditional screen printing and UV, UV digital**.

The **Color** Collection is designed for the needs of the market:

- Promotional communication,
- Panel and Display,
- Labelling,
- Promotional cases,
- Stationery,
- Technical applications.

Low density, light weight, flexible and resistant, it is ideal for applications such as: suitcases, custom filing boxes, promotional items, small POS, promotional stationery, wallets, layer pads, signage, maps, reinforcements...

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							
	White 1155		White 1170		Beige 2120		Purple 5119
	Blue 5140		Blue 5160		Blue 5175		Green 6255
	Green 6175		Green 6232		Green 6203		Yellow 1906
	Orange 3130		Red 4210		Red 4185		Fuchsia 4139
	Grey 8110		Grey 8127		Grey 8170		Black 9170

Colour matching on request, minimum order quantity 1,500 kg.

ECO							
	White Recycled		Blue R5160		Green R6175		Orange R3130
	Red R4210		Grey R8127		Black R9170		

ECO+							
	White 11107		Purple 55119		Blue 55160		Green 66175
	Red 44210		Brown 33170		Brown 77170		Grey 88127
	Grey 88195		Black 99170				

ECO/ECO+ colour and aspect variations are possible from one batch to another and within the same batch.

Services

> Color **CREA** and **ECO** are available from stock service, shipped within 24 hours from day of order:

Colour	Thickness (mm)	Sizes (mm)			Packaging	
		700 x 1,000	650 x 1,100	800 x 1,200	Multiple sheets	Sheets/Palletised
CREA White 1155	0.30	x			x	x
	0.50	x	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
ECO White recycled 80 %	0.80	700 x 1,000	650 x 1,100	800 x 1,200	Multiple sheets	Sheets/Palletised

- > Colour matching service* with (Pantone / RAL / references): minimum order quantity 1,500 kg
- > Colour matching*: UV Protection, etc.
- > Service sheets with radius corners

Surface Embossing

	Front	Back
	Fine Sand	Fine Sand
G01*		
	Fine Sand	Sand
G02		

*ECO and ECO+ (not available in CREA)

Thickness (µm) - Density

CREA	Thickness		Density
	ECO	ECO+	
280 to 400	300 to 400	300 to 400	0.93
410 to 2,000	410 to 1,600	410 to 1,600	0.92

White 11107 is only available from 400 µm thickness.

Dimensions (mm)

Width	Length
500 to 1,400	700 to 1,800
900 to 1,400*	1,801 to 2,200*

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

Minimum Order Quantity

	Standard size			XXL size	UV Treatment CREA
	CREA	ECO	ECO+		
MOQ (kg)	500	1,000	1,000	1,000	1,000
Campaign Min. (kg)	-	1,000	1,000	1,000	1,000

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

*Only in **CREA** (not available in ViPrint™ **ECO** and **ECO+**)

1. General characteristics of the product – Environment

CREA

- 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

ECO

- Sheet made from post-industrial recycled material and virgin (polypropylene, polyethylene and antistatic agent, and colourant formulation)
- ViPrint™ **ECO** ranges are recyclable
- ColorECO20 range: 20% recycled post-industrial and 80% virgin material
- ColorECO50 range: 50% recycled post-industrial and 50% virgin material
- ColorECO80 range: 80% recycled post-industrial and 20% virgin material
- 2-sided corona treated, suitable for UV offset printing, UV screen printing and UV digital printing
- Colour variations are possible from one batch another and within the same batch

ECO+

- Sheet made from post-consumer recycled material and virgin (polypropylene, polyethylene and antistatic agent, and colourant formulation)
- The recycled material comes from plastic waste from the marine industry
- ViPrint™ **ECO+** ranges are recyclable
- Color ECO+20 range: 20% recycled post-consumer and 80% virgin pellets
- Color ECO+50 range: 50% recycled post-consumer and 50% virgin material
- Color ECO+80 range: 80% recycled post-consumer and 20% virgin material
- 2-sided corona treated, suitable for UV offset printing, UV screen printing and UV digital printing
- Colour variations are possible from one batch another and within the same batch

2. Surface aspects & minimum manufacturing quantities

Embossing	G01	G02
CREA		√
ECO	√	√
ECO+	√	√

	Standard size			XXL size	UV Treatment
	CREA	ECO	ECO+		CREA
MOQ (kg)	500	1,000	1,000	1,000	1,000
Minimum campaign (kg)	-	1,000	1,000	1,000	1,000

	Minimum order quantity* (kg)	Campaign* (kg)
CREA		
Standard sheet size	500	-
xxs sheet size	1,000	1,000
XXL sheet size	1,000	1,000
UV treatment	1,000	1,000
ECO		
Standard sheet size	1,000	1,000
xxs sheet size	1,000	1,000
XXL sheet size	1,000	1,000
ECO+		
Standard sheet size	1,000	1,000
xxs sheet size	1,000	1,000
XXL sheet size	1,000	1,000

*By thickness / sheet size / colour
 Additional costs xxs / XXL: On request

3. Dimension Tolerances

3.1. Extrusion

a/ Available sheet sizes

CREA

Thickness (µm)	280	350	500	800	2,000
Width (mm)	500 - 1,200	500 - 1,250	500 - 1,400	500 - 1 400	
Length (mm)	700 - 1,200	600 - 1,800	650 - 1 800	500 - 1,800	

ECO

Thickness (µm)	300	350	500	800	1,600
Width (mm)	500 - 1,200	500 - 1,250	500 - 1,400	500 - 1,400	
Length (mm)	700 - 1,200	600 - 1,800	650 - 1 800	500 - 1,800	

ECO+

Thickness (µm)	300	350	500	800	1,600
Width (mm)	500 - 1,200	500 - 1,250	500 - 1,400	500 - 1 400	
Length (mm)	700 - 1,200	600 - 1,800	650 - 1 800	500 - 1,800	

Special widths: On request

White 11107 is only available from 400 µm thickness.

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

CREA

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

ECO

Thickness (µm)	800	1,600
Width (mm)	900 - 1,400	
Length (mm)	1,801 - 2,200	

ECO+

Thickness (µm)	800	1,600
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
Angle 90°	mm	0	+3
Sheet flatness (top/bottom)	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)	350	400	800
Width (mm)	500 - 1,250	500 - 1,300	
Length (mm)	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
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).

Cutting service: consult us

4. Mechanical properties

Properties	Method	Unit	Value
Specific weight			
Thickness ≤ 0.400 mm	-	g/cm ³	0.93
Thickness ≥ 0.410 mm			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

Only applies to ViPrint™ CREA. 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 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.

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.

7. Compliance

The raw materials used meet the following directives and standards:

CREA

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
White 1155	√	√	√	√	√
White 1170	√	√	√	√	√
Yellow 1906	√	√	√	√	√
Beige 2120	√	√	√	√	√
Orange 3130	√	√	√	√	√
Fuchsia 4139	√	√	√	√	√
Red 4185	√	√	√	√	√
Red 4210	√	√	√	√	√
Purple 5119	√	√	√	√	√
Blue 5140	√	√	√	√	√
Blue 5160	√	√	√	√	√
Blue 5175	√	√	√	√	√
Green 6175	√	√	√	√	√
Green 6203	√	√	√	√	√
Green 6232	√	√	√	√	√
Green 6255	√	√	√	√	√
Grey 8110	√	√	√	√	√
Grey 8127	√	√	√	√	√
Grey 8170	√	√	√	√	√
Black 9170	√	√	√	√	√
Other colours			Consult us		

ECO+

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
White 11107		√	√	√	
Purple 55119		√	√	√	
Blue 55160		√	√	√	
Green 66175		√	√	√	
Red 44210		√	√	√	
Brown 33170		√	√	√	
Brown 77170		√	√	√	
Grey 88127		√	√	√	
Grey 88195		√	√	√	
Black 99170		√	√	√	

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.