ViPrint
PART OF epso

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 PART OF epso **ViPrint eco** PART OF epso **ViPrint eco⁺** PART OF epso

The **Color** Collection is available in a large choice of **very attractive opaque standard colours,** in **G02 embossing** and **from 0.250 mm thickness**.

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.*

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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.

Surface Embossing

G01*
Front — Fine sand   Back — Fine sand

G02
Front — Fine sand   Back — Sand

*ECO and ECO+ (not available in CREA)

Thickness (µm) - Density

Thickness			Density
CREA	ECO	ECO+	
250 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

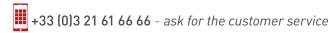|	Standard size			XXL size	UV Treatment
	CREA	ECO	ECO+		CREA
MOQ (kg)	500	500	1,000	1,000	1,000
Campaign Min. (kg)	-	500	1,000	1,000	1,000

Services

> Color **CREA** and **ECO** are 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	
CREA		700 x 1,000	650 x 1,100	800 x 1,200	Multiple sheets	Sheets/Palletised
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	x
	0.80	x	x	x	x	x
	1.20	x	x	x	x	x
ECO		700 x 1,000	650 x 1,100	800 x 1,200	Multiple sheets	Sheets/Palletised
White recycled 80 %	0.80			x	x	x

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

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

*Only in **CREA**

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

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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+30 range: 30% recycled post-consumer and 70% virgin pellets
- Color ECO+50 range: 50% recycled post-consumer and 50% virgin pellets
- Color ECO+80 range: 80% recycled post-consumer and 20% virgin pellets
- 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	500	1,000	1,000	1,000
Minimum campaign (kg)	-	500	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	500	500
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

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

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3. Dimension Tolerances

3.1. Extrusion
a/ Available sheet sizes

CREA

Thickness (µm)	250	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
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).

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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
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}

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

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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 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.

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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.

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