

Alborada commits to
SUSTAINABLE
production



" We live on earth as we had
another earth to go to"

-Terry Swearingen

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A conscious Team

All people who form Alborada have a firm commitment to sustainability:

- ✓ Reduction of water consumption by **28%***
- ✓ Reduction of electricity consumption by **8%***
- ✓ Reduction of office paper consumption
- ✓ Waste reduction
- ✓ Active search for suppliers that recycle plastics
- ✓ Reduction of solvents in cleaning
- ✓ Sustainable travel management



2

Our certifications

We are the company in the graphic sector
with more quality certifications from Spain

Environmental Commitment



Sustainable forests



Environmental impact



Environmental transparency



Quality commitment



Quality management system



Contract Proof Creation | 34863

Health and security commitment



Social Commitment



Red Española



LIDERANDO LA SOSTENIBILIDAD EMPRESARIAL



3 Traceability

We follow the trace

Alborada **manages, supervises and controls all the traceability of its processes** and only establishes agreements with suppliers that have the same commitment.



CG Alborada is in the **continuous search for environmentally sustainable solutions** that allow us to maintain our lifestyle. We are increasingly aware of what climate change will bring, even in the short term, and all social actors are trying to be part of the solution.

“PVC-free materials such as cardboard are being used, plotters are being manufactured with recycled materials and, as far as the software is concerned, automatic imposition (nesting) is being implemented, thus reducing material waste. In addition, customers are increasingly aware of using their printing equipment more responsibly, both in pre-press and during printing and then with recycling. We are moving towards a circular economy”.

In short, to be sustainable you **must achieve “economic efficiency, use renewable sources, and reduce energy consumption, waste and pollutants.”**



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Eco-friendly inks

01 Water based

Clean, intense and environmentally friendly colors.

02 Vegetables

Absence of solvents, residues easy to remove

03 UV-Led

To avoid generating ozone.

04 Finishes

Remember that varnishes can also be vegetable or water based.

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Materials

New materials what we must keep in mind and what we bet on.

01 Of forest origin

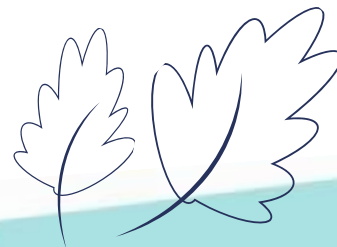
- ✓ Paper, wood or cardboard from sustainable forests. Recognize them by its **FSC®** or **PEFC** certificate.
- ✓ **TCF** paper, totally free of chlorine.
- ✓ Standard measures to take advantage of the material.

02 Plastics

- ✓ Bioplastics, of natural and renewable origin such as **PLA**. Sustainable methacrylate
- ✓ **Green Cast.**
- ✓ Recycled plastics.

03 Closeness

- ✓ Local suppliers of products and raw materials. Socially beneficial and reducing emissions in transportation.



Eco Paper suggestions

Grass Paper

This paper is made with 500% virgin fiber from sun-dried herbs, mixed with other ecological materials, such as FSC® certified wood fiber.

Stone Paper

Made from the combination of 80% calcium carbonate with 20% non-toxic Polyethylene resin (resin). Made without trees, without water and without chlorine. Resistant and washable.

Seaweed Paper

Ecological paper made with seaweed from the Venice lagoon. It is a biodegradable paper. This paper was created as a solution to the problem of the Venice lagoon where the proliferation of algae endangered the balance of the ecosystem due to the lack of oxygen in the water.

Lavender Paper

Made with 15% organic lavender waste. It contains 30% post-consumer recycled waste and is produced with 100% green energy. Available from corn, citrus, grape, olive, cherry, kiwi, coffee and hazelnut.

Kiwi Paper

Made with 15% organic kiwi waste. It contains 30% post-consumer recycled waste and is produced with 100% green energy. Available from corn, citrus, grape, olive, cherry, kiwi, coffee and hazelnut.

Coala Paper Stick R

It is a 180 g/m² white adhesive paper with a semi-permanent water-based acrylic adhesive and a white kraft liner. Both the front and the back are made of renewable fiber products with FSC® certification. Coala Paper Stick R is designed for interior promotional decoration on flat glass surfaces where gentle removability is required. PVC-free and FSC® certified.



Eco Paper suggestions

Coffee Paper

Made with 50% recycled cotton from the textile industry and 50% ground coffee fibers. It is an ecological and artisan paper.

Jeans Paper

Made 100% with recycled jeans from the textile industry.

Plantable Paper

100% paper made from cotton waste from the textile industry. It contains seeds in its composition, among which you can choose the following varieties: latticework, tomato, carrot, wildflowers and chamomile.

Cork Paper

Made with natural cork on a sheet of Kraft paper. Available in multiple finishes.

Cotton Paper

100% cotton paper. Available in natural white and boned cream.

Ceylon Paper

100% biodegradable and recyclable paper. Without coatings, made with e.c.f. pulp. Felt on both sides of paper. Various colors available.

Paper Particles

100% paper with particles. It exists in three colors and particles: tundra with particles in golden tones, snow particles with particles in white tones and arctic with particles in white tones.

Kraft paper

100% recyclable paper. Kraft paper is also available in white.



Honeycomb polypropylene

Direct printing on honeycomb polypropylene offers **great resistance to environmental changes and provides luminosity and quality** to all your designs.

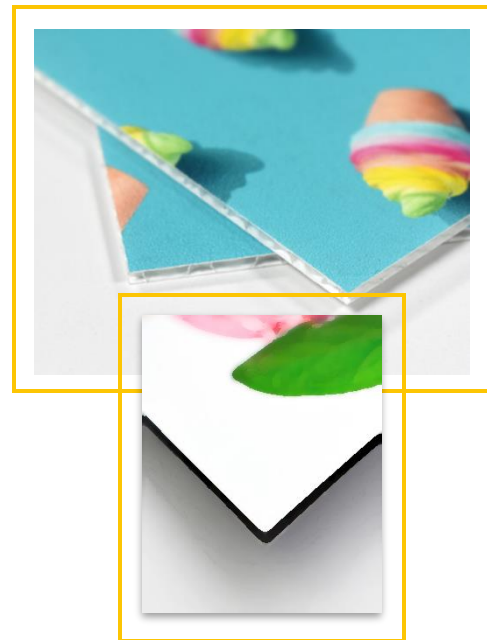
You can choose between polypropylene **with a black or white core** depending on your designs and needs.

These signs are rigid, lightweight, and 100% recyclable and are recommended for outdoor application. Ideal for signage, real estate, advertising posters, information panels, domestic images...

Advantages

- ✓ Great resistance to fracture and tearing.
- ✓ Soundproofing and insulating characteristics.
- ✓ Suitable for food use.
- ✓ Easily processable.
- ✓ Good rigidity.
- ✓ Resistant to water and humidity.
- ✓ Good chemical resistance.
- ✓ Great resistance to compression.

The ecological
alternative to
Foamed PVC



Alveolar Cardboard or Honeycomb

The honeycomb cardboard is composed of a cardboard sheet made of 100% recyclable paper, with a honeycomb structure in its kraft interior. If you choose white kraft, it is covered with special 450g white coated paper for printing on both sides.

Honeycomb cardboard is a rigid digital printing support formed by a core with hexagonal structures reminiscent of a honeycomb. Cardboard printing is ideal for interior spaces, the material is ecological and 100%. It is a very resistant and light support that provides wide versatility in terms of its uses.

Advantages

- ✓ Ecological alternative to other rigid supports.
- ✓ 100% recyclable with FSC® certificate.
- ✓ Great dimensional stability.
- ✓ Applications:
 - ✓ Printed displays for point of sale.
 - ✓ Stands and counters for fairs and exhibitions.
 - ✓ Ephemeral decorative elements and printed furniture.
 - ✓ Hanging signs and totems.
 - ✓ Signaling.

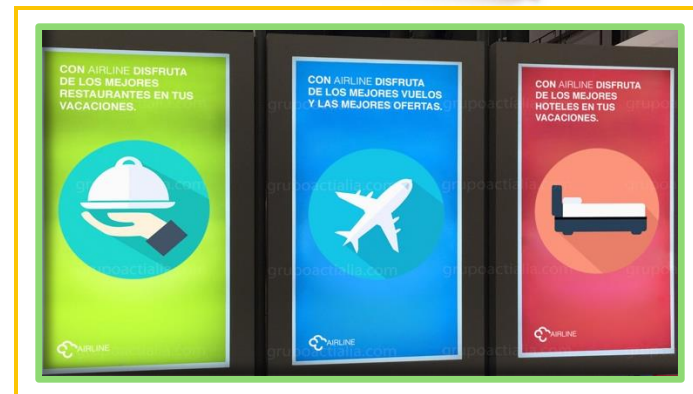


Polypropylene Film

Polypropylene film is a mechanically resistant polymer, light, flexible in thin thicknesses and resistant to many chemical solvents, bases and acids. It has similar properties to polyethylene (PE), but with a higher softening point. Specific treatments can be performed, such as corona treatment on both sides, and it can also have UV protection.

Advantages

- ✓ Ecological and recyclable, complying with REACH regulations.
- ✓ Low density.
- ✓ Light.
- ✓ Flexible.
- ✓ Resistant to chemical agents.
- ✓ Does not emit chlorinated gases when burned.
- ✓ Suitable for digital printing with corona treatment.



Bopla film. Bio-based polylactic acid

PLA (polylactic acid) is a polymer with lactic acid produced by biological fermentation as the main raw material. Its raw material is sufficient and can be regenerated, the product is biodegradable. After being used, it can be compounded into carbon dioxide and water at a temperature above 55°C or under the action of oxygen and microorganism enrichment, realizing the circulation of the material in nature with little impact on the environment. Therefore, it is an ideal green. polymer material.

Compared with other processing methods, the biaxial tensile process gives the PLA material higher strength and thinner film thickness, which facilitates the process of material disintegration and microbial erosion, so it can greatly shorten measure the biodegradation time of the material. Compared with traditional fossil-based polymers, PLA has reliable biosafety, biodegradability, and can reduce energy dependence. Since PLA is bio-based, **it has a significant effect on carbon reduction and carbon emissions are reduced by more than 68% compared to traditional fossil-based plastics.**

- ✓ **The PLA or BOPLA.** It has good biocompatibility and degradation performance, which is environmentally friendly.
- ✓ Excellent processing performance and good folding stability and torsion retention.
- ✓ High transparency, low haze, good surface gloss and **excellent printing performance.**
- ✓ Good heat sealing performance without additional treatment.



Vinyl proposal to those already known

Microperforated

Film available in PVC or PVC-free, this support allows visibility of the exterior from the interior. Available in vitropane for indoor installation

Esydot Repositionable vinyl thanks to its adhesive drops that allow installation without bubbles and without glue residue. Suitable for application on curved and smooth surfaces.

Viziprint PVC-free film, 100% ultra transparent and recyclable, suitable for application on glass or plexiglass only.
Repositionable without residue and waterproof.

Colored Film Vinyl suitable for application on flat or slightly curved surfaces, for interior use and exterior (UV and weather resistant), for very durable use.
Available in opaque M1, carbon effect M1, translucent, metallic effect, free of PVC, fluorine or translucent matte.

More **recyclable or eco** materials

RPET. This material is usually used, mainly, in the production of textile fibers and in packaging in contact with drinks and all types of food. Also for other purposes such as floor tiles, backpacks, light anoraks, flower pots, other types of packaging and even as fuel for 3D printers.

Los tejidos RPET. They are sustainable, since they have very resistant components and have a long durability. Also, they have a high heat tolerance and are flexible and waterproof. The most common examples of textile fibers made from recycled plastic would be products such as scarves, covers and ribbons.

Madera. Wood printing is one of the most attractive, natural and ecological options available. The natural veins of this material give the image a very unique aesthetic. Among all materials, wood stands out for being the only one of pure nature.

Corn Platter. PLA (polylactic acid) is derived from natural and renewable raw materials, such as corn, and belongs to polyesters as a synthetic polymer. Starch (glucose) is extracted from plants, widely used in 3D printing



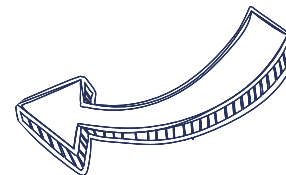
More **recyclable or eco** materials

Polypropylene. This type of material is the great alternative to Polyvinyl Chloride (PVC). Polypropylene is a low-density thermoplastic polymer that is obtained from petroleum and natural gas, through polymerization of propylene. Currently, polypropylene is used in the graphic and printing industry in a wide range of products such as signs, packaging, boxes, labels, stickers, etc.

Polyethylene. In addition to being one of the most used materials worldwide, polyethylene is a very flexible type of plastic that is used for packaging and bottle containers. Among the main characteristics of polyethylene we highlight its transparency, low density and simplicity when producing it. At the same time, it is a material that resists chemical agents and X-rays.

Cellulose acetate.

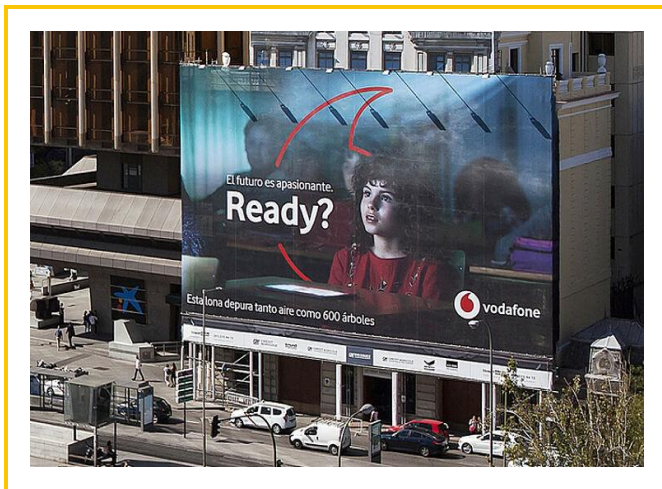
Unlike other materials, cellulose acetate is made from cotton fibers and wood pulp. In addition, it is characterized by being a very resistant and flexible material to light, wear and chemical agents. Cellulose acetate is of plant origin in addition to being a biodegradable material.



Eco-friendly canvas

The eco-friendly tarp **is recyclable, biodegradable and PVC-free.**

This type of canvas represents what is known as sustainable printing, and this is thanks to ecological inks that comply with a series of rules that are based on respect for the environment. After deterioration, the ecological canvas can be disposed of in the packaging container.



The ecological tarpaulin is made of polyester, it is quite similar to a common tarpaulin, but **it does not contain PVC**. Printing is done with sustainable inks and materials, complying with environmental standards. They can be placed indoors and outdoors. Visibility and clarity are other characteristics that, as with other canvases, are worth highlighting. These tarps can last in perfect condition for about 3 years.



Big brands
they are already
using it

Packaging

Sustainable packaging trend in the market

In the next four years, the green packaging market will grow by to reach a turnover of nearly **95 million euros** → **8%**

The food industry had the largest market share of eco-friendly packaging

Represents more than → **55%** of green packaging consumption in 2017, and will represent the largest growth in the market



Main brands and distributors



Reduction of plastics by 25% by 2025 and all packaging made of recyclable plastic



Unilever's goal: use 100% recyclable plastic packaging by 2021



Henkel is betting on more recycled material for its packaging.



In 2019, LIDL will eliminate single-use plastic items from its stores.



Nestlé announces that by 2025 its packaging will be 100% recyclable.



Starbucks together with Closed Loop partners will develop a recyclable and compostable cup solution

Facts about plastic in Europe

→ **84%** of waste in European seas and oceans



3.5 Millions tons of plastic consumed in Spain in 2017

→ **46%** comes from the packaging industry

2019
CONTAINER

Mandatory requirements for 2030

LINES OF ACTION

	2030 CONTAINER	HARMONIZED STANDARD	MANDATORY REQUIREMENTS
→	Recyclable packaging	UNE-EN 13439 ISO 18604	1/ Demonstrate its recyclability from the point of view of: <ul style="list-style-type: none"> <input type="checkbox"/> Design <input type="checkbox"/> Production <input type="checkbox"/> Use <input type="checkbox"/> Collection/Sorting <input type="checkbox"/> Available recycling technologies
→	Compostable packaging	UNE-EN 13432 ISO 18606 ENSAYOS DE COMPOSTABILIDAD	2/ Demonstrate its compostability, its essential being its: <ul style="list-style-type: none"> <input type="checkbox"/> Biodegradability <input type="checkbox"/> Disintegration <input type="checkbox"/> Quality compost
→	Reusable packaging	UNE-EN 13429 ISO 18603 ENSAYOS DE COMPOSTABILIDAD	3/ Demonstrate it is reusable and it has been taken into account in its: <ul style="list-style-type: none"> <input type="checkbox"/> Design <input type="checkbox"/> Possibility of repeated uses for the same function <input type="checkbox"/> Existence of a reconditioning, recycling or refilling system

Proposals by Alborada



Dm corporeal next to 3D figures made of **wood** chips



Meeting room table made of **wood**



Pascual campaign in **cardboard** against corporate cork agenda



THANKS

YOU MUST KEEP IN MIND THAT THESE
MATERIALS ARE NOT IN CONTINUOUS STOCK,
AND TO PRODUCE IN THEM WE MUST THINK
ABOUT LONGER TIMES.