

# Eco-friendly and sustainable materials



POS   
DISPLAYS LTD

The logo for POS Displays Ltd features the letters "POS" in a large, black, sans-serif font. To the right of "POS" is a graphic consisting of two overlapping squares: one is orange and the other is black. Below "POS" and the graphic, the words "DISPLAYS LTD" are written in a smaller, black, sans-serif font.

## Plywood

Plywood is a strong and versatile material that is made from a renewable resource; therefore, it is a natural product. Plywood has a natural, raw finish, which makes it look very eco-friendly and organic. Artwork can still be printed onto the wood, as seen in the images, and there are different styles that can be used for the print.

The material is becoming increasingly popular and could correlate with the fact that it is an FSC certified material.

Birch Plywood is an alternative option and offers a different finish.

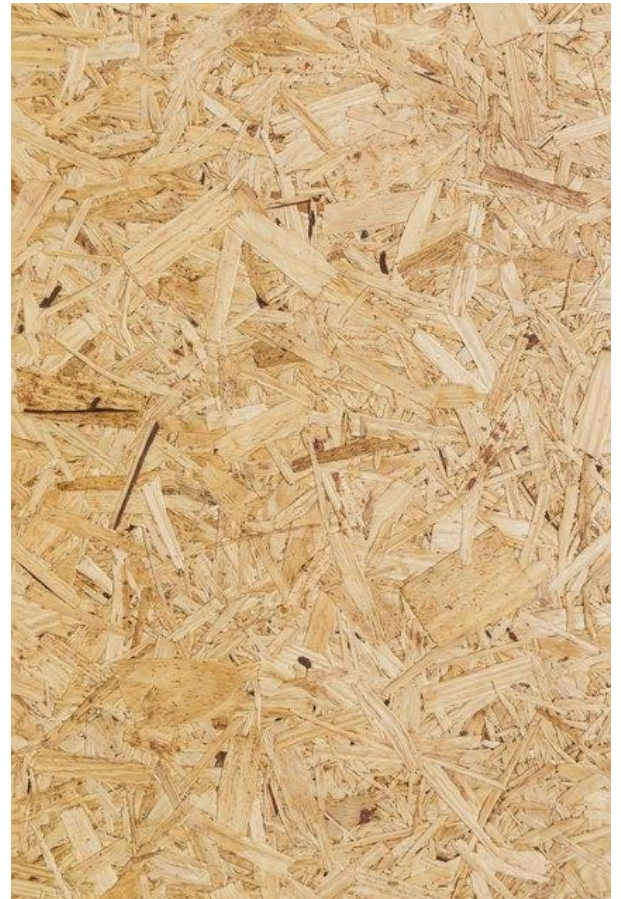
All waste from our Plywood display stands is burnt on site which then produces heat for our factory.



## OSB (Oriented strand board)

OSB is not a new material but it is one that is becoming increasingly popular. Oriented strand board is formed by compressing layers of wood strands in specific orientations which creates the variegated finish on the surface.

The result is a strong and durable board, perfect for construction. OSB is environmentally sustainable, as it is recycled and is biodegradable. We burn any OSB waste from production in our WT15 heater, just as we do with any other wood waste.





## Cardboard

Cardboard is a great material for short term use due to the strength of it. Display stands in cardboard are often used for quick promotions, such as occasional products, sale products etc .

Cardboard is an eco-friendly materials as it is sustainable, biodegradable and has a much higher recycling rate than most materials.

The cardboard used at POS Displays is FSC certified and is made from recycled materials. Digital print looks really great on cardboard and it can be easily applied directly onto it, perfect for catching the eye of customers passing by.



## Honeycomb Cardboard

Honeycomb cardboard is a durable, lightweight and cost-effective packaging solution that is custom engineered using kraft paper material.



## Ultra-board

Ultra-board is a true paper honeycomb board, meaning there is less material used. This reduces weight and production cost of the material.

Ultra-board is a has a sustainable core and numerous outer facing options, which means it can be used for almost any project.

## MDF

MDF is our most popular material as it is so versatile and offers strong structuring for manufacturing displays. It is manufactured from a combination of real wood and recyclable products.

The material can be sprayed to offer a variety of finishes and other finishes such as woodgrains can be used to create a more natural looking display.

MDF is FSC and Programme of the Endorsement of Forest Certification (PEFC) certified. 30% of MDF's content is made from recycled materials.





## Chipboard

Chipboard is a very cost-effective option, made with up to 70% recycled materials, so it's more environmentally friendly than other alternatives. Chipboard is a sturdy material that holds up well under pressure and different finishes can be created with Melamine faced chipboard.



## Blockboard

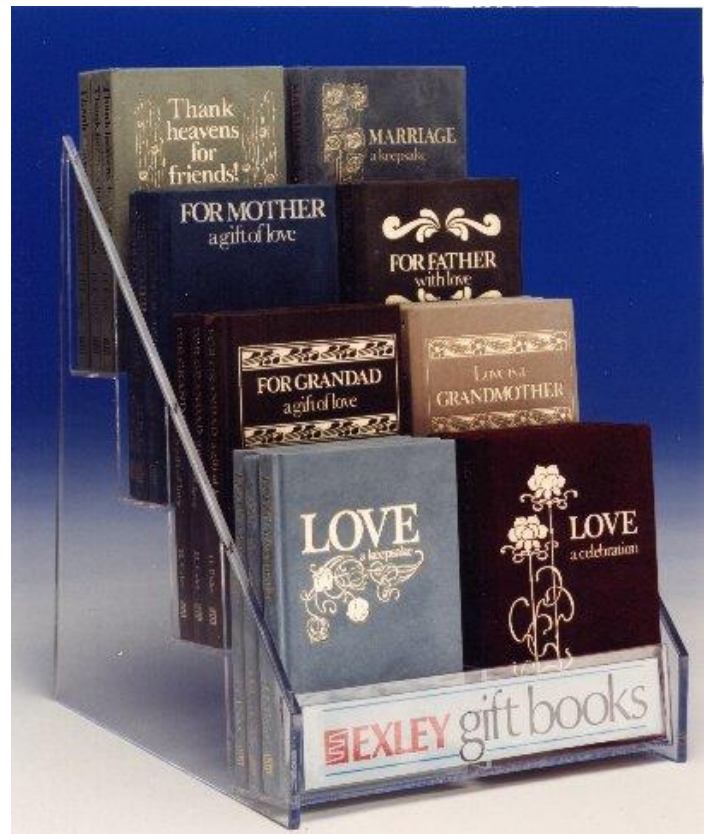
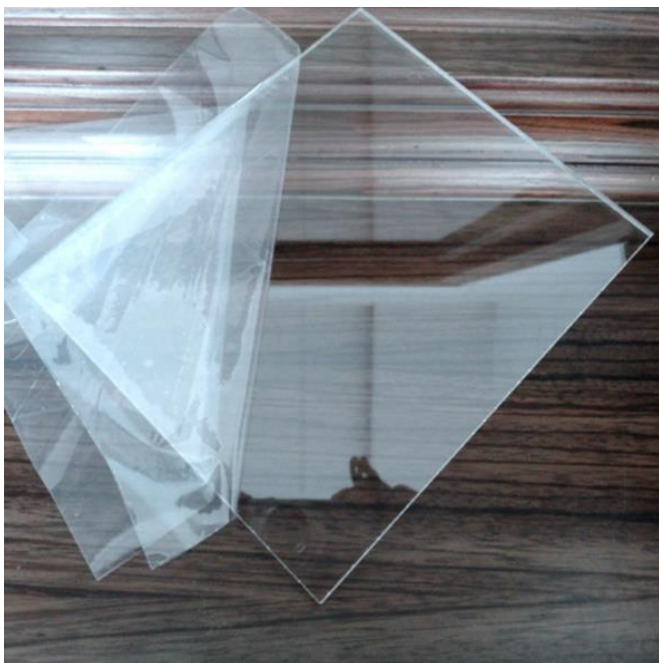
Blockboard is an inexpensive, stable and environmentally friendly material that is made up of softwood strips and veneers. They are manufactured by placing softwood strips edge to edge and sandwiched between veneers, then glued together with high pressure. Blockboard is an FSC certified materials and offers a very natural finish.



## Acrylic

Acrylic is a transparent plastic material with outstanding strength and stiffness. The material is easy to fabricate as it bonds well with adhesives and solvents and is easy to thermoform. Acrylic has superior weathering properties compared to other transparent plastics.

Even though they have chemicals in them, acrylic plastics are still far less harmful than poor quality plastic products, which can severely damage the environment. Therefore, acrylic products can still be considered as an environment friendly option





## Potato starch bags








We are currently investigating the use of compostable bags to package our display stands. These bags would be used for our flat packed displays when being sent to customers. Compostable bags will help us to make our packaging eco-friendlier.

EN 13432 requires the compostable plastics to disintegrate after 12 weeks and completely biodegrade after six months. This means that 90 percent or more of the plastic material will have been converted to CO<sub>2</sub>. The remaining share is converted into water and biomass – i.e. valuable compost. Materials and products complying with this standard can be certified and labelled accordingly.



Example of a compostable bag

## Recycling codes for plastics

						
PETE	HDPE	PVC	LDPE	PP	PS	OTHER
polyethylene terephthalate	high-density polyethylene	polyvinyl chloride	low-density polyethylene	polypropylene	polystyrene	other plastics, including acrylic, polycarbonate, polyactic fibers, nylon, fiberglass
soft drink bottles, mineral water, fruit juice container, cooking oil	milk jugs, cleaning agents, laundry detergents, bleaching agents, shampoo bottles, washing and shower soaps	trays for sweets, fruit, plastic packing (bubble foil) and food foils to wrap the foodstuff	crushed bottles, shopping bags, highly-resistant sacks and most of the wrappings	furniture, consumers, luggage, toys as well as bumpers, lining and external borders of the cars	toys, hard packing, refrigerator trays, cosmetic bags, costume jewellery, CD cases, vending cups	

## Sugar cane bags

We are also looking into using sugar cane bags as they are carbon neutral and 100% recyclable. At least 90% of the bag degrades within 180 days, in the right conditions. The bags can be put into food waste bins or garden composters, which takes up less space and is light to transport.

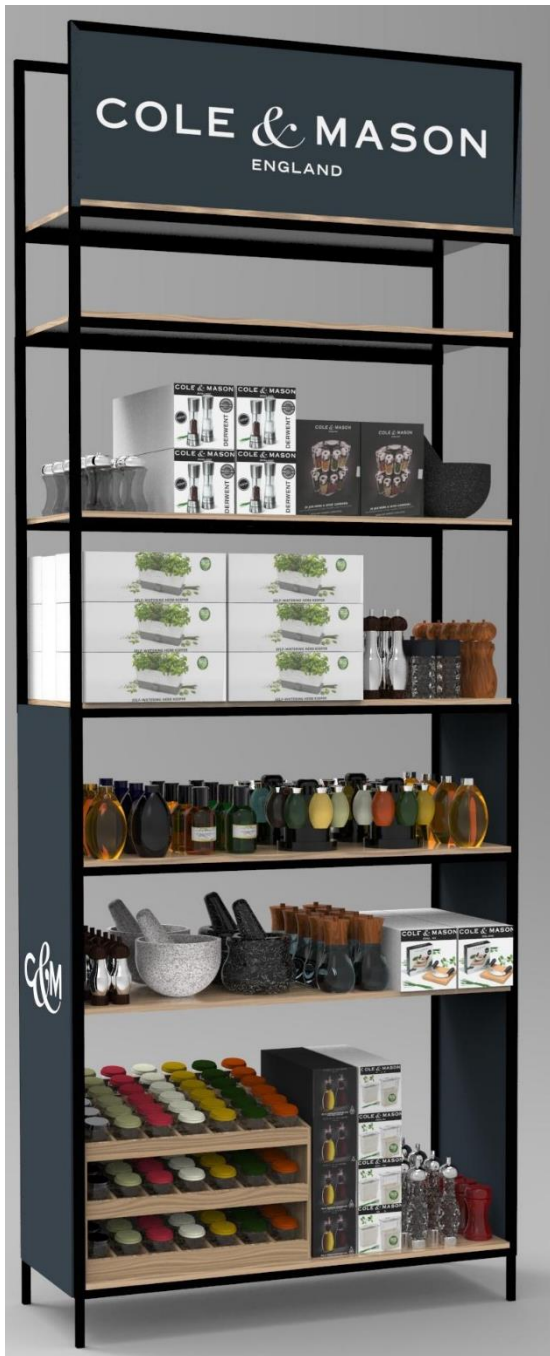
After refining sugar cane, the waste product is processed to make alcohol, from that it is made into ethanol which can be made into polymer much like the refining techniques used to make oil-based polymer (polythene).



## Metal

Metal can be used in a variety of ways when it comes to displays, usually it is used to create some sort of structure around a display, due to its strength and durability.

Metal is an eco-friendly material as it comes from the earth and at the end of its life cycle can be recycled down, melted and used again.



Metal frames used to create the structure of the display



Metal pole holds this display together