

Acrylic is a strong and durable plastic. It is supplied in sheet form and is available in a wide range of colours and finishes including clear, matt, gloss or even mirrored! Acrylic is easy to machine and form with heat, it can also be bonded using acrylic glue. This material is popular in POS displays thanks to its premium finish and the ability to print on to it. It is a cost-effective option that can replace glass or polycarbonate.

## How it's made...

There are two types of sheet acrylic - the difference begins with how they are made.

**Extruded Acrylic** - by extruding acrylic polymer a consistent thickness can be achieved which is important when gauge tolerance is critical. Cheaper than cast material it has better impact resistance but the clear material has lower clarity.

**Cast Acrylic** - here the acrylic is sandwiched between two flat sheets in an oven. It is available in a wider range of colours. Cast acrylic is of higher quality and easier to form using heat.



### PROS

- Acrylic comes in many different colours, transparencies and finishes.
- It can be used as an alternative to glass - it is stronger than glass while being 50% lighter!
- It can be easily cleaned and maintained.
- Acrylic is resistant to sunlight and has excellent resistance to weather damage.
- The rigid material is easy to form and mould using heat.
- Acrylic can be recycled.



### CONS

- Acrylic is a brittle material that can crack under stress making it unsuitable for some applications.
- It has poor solvent resistance - this is not a common issue in POS but must be considered.
- It can be easily scratched. Despite this, it is still a strong and durable material.



### DisplayMode Sustainability Rating



Start-of-Life (SOL)  
Is it made from recycled material?

**Yes it has Recycled Content**

End-of-Life (EOL)  
Can it be recycled?

**Yes it is Recyclable**

## When should I consider Acrylic?

Acrylic is a great material to achieve a premium feel for your unit due to its wide offering of colour and finish options. It offers strength and long life when looked after. Acrylic is known to be brittle so the unit position must be considered before using this material.

### Economic Value

Compared with similar products



Low Price

High Price



## Acrylic End-of-Life



Acrylic is recyclable, however, as it's not bio-degradable the process is not as easy as putting it in your recycle bin or taking it to a bottle bank. But you can re-use acrylic (e.g. Perspex), by cutting larger sheets into small pieces and forming them into other products.

