



Green Cast ®.

Signage material made from 100% recycled acrylic.

modulex

www.modulex.com

Meet Green Cast.

Green Cast® is a new generation cast acrylic made from 100% recycled MMA (methylmethacrylate monomer).

The production of Green Cast® begins with the collection of manufacturing scraps and post-consumer acrylic waste, reclaimed across Europe, which are then sorted and ground into pieces. This waste is regenerated through thermal cracking, which recovers the original solvent from PMMA, followed by distillation to obtain recycled MMA. This process generates by-products used in the same process to produce energy, lowering the final carbon footprint of the product. The recycled MMA is used at 100% instead of virgin acrylic to produce Green Cast® sheets, giving this waste a new life and reducing the use of raw materials.

Green Cast® sheets do not contain any substances listed in the SVHC list in quantities above 0.1% and comply with the most recent REACH regulations regarding SVHC.

Furthermore, Green Cast® is 100% VOC and HFC-free. Signage made from Green Cast® is produced at our Billund, Denmark factory, where all electricity is 100% CO2 neutral and printed graphics are UL Greenguard Gold certified.

All Green Cast® production waste at our factory will be collected and sent back to recycling.

While it has the same durability and functional properties as virgin acrylic, the production of Green Cast® uses less water and primary resources and ultimately helps reduce the amount of acrylic waste sent to landfills or incineration.

Throughout its entire life cycle, Green Cast® has a carbon footprint 75% lower than virgin acrylics and can be recycled repeatedly.



Why Choose Green Cast?

- Green Cast® is made from 100% recycled acrylic, giving waste a new life, and reducing the amount of waste sent to landfill or incineration.
- At the end of its life, Green Cast® products can be recycled repeatedly.
- The production of Green Cast® signage reduces the use and extraction of raw materials, uses less water, and generates less CO2 than virgin cast acrylic.
- Green Cast® has a carbon footprint 75% lower than virgin cast acrylic.
- Green Cast® signage is VOC- and HFC-free. This material can be used in 3, 5 and 10mm to create signage with the same versatility, functionality, and durability as any virgin acrylic.
- Green Cast® is suitable for any printing and graphic technology, from UV-print to eco-solvent, 3D tactile print, vinyl, and braille.
- A wide range of mounting methods can be used to install Green Cast® signs – the possibilities are infinite.



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What is the

Environmental Impact?



- > To measure the environmental impact of Green Cast®, an LCA screening is available which outlines the impact of the entire production and life cycle of Green Cast® sheets.
- > The study shows that Green Cast® acrylic has a carbon footprint 75% lower than virgin acrylic.
- > Furthermore, the difference in other environmental indicators such as 'Acidification potential', 'Eutrophication potential', 'Abiotic depletion potential', and 'Photochemical Ozone formation potential' grows up to 80%.
- > The environmental benefits of using Green Cast® instead of virgin cast acrylic are evident.
- > From a lower carbon footprint to the reuse of waste and reduced use of water, Green Cast® provides a better alternative to acrylics while maintaining the durability and quality that makes them so popular.
- > Please ask our sales offices for more information about the product and LCA screening.