

Green Cast® Product Info

Acrylics are widely used due to their resistance, durability, versatile colour and transparent finishes. However, acrylics have a high environmental impact due to the energy-intensive process and raw materials needed to produce them. At Modulex, we are committed to offering eco-friendly materials that help us reduce the environmental impact linked to our products.

Green Cast® acrylic sheets are produced from 100 % recycled acrylic. While it has the same structural, graphical and mechanical properties as virgin acrylic, Green Cast® has a lower environmental impact and primary resource use, with a carbon footprint 75 % lower. Green Cast® products can be recycled repeatedly at end-of-life to make new products.



Origin & Treatment

- Manufactured from pre- and post-consumer waste, regenerated to make new acrylic sheets.
- Recycling process generates by-products used in the same process to produce energy, reducing emissions.
- Green Cast® is 100 % VOC- and HFC-free

The production of Green Cast® sheets starts by collecting manufacturing scraps and post-consumer acrylic waste, giving this waste a new life. The acrylic waste is sorted, grinded and regenerated via thermal cracking. Subsequently, the regenerated waste is distilled, generating by-products used to produce energy for the same process. This reduces the ecological impact from the energy-intensive production linked to acrylics.

Manufacturing & Production

- Signage production takes place at the Modulex factory in Billund, where all our electricity is 100 % carbon neutral.
- Printed graphics are UL GreenGuard Gold certified.
- Green Cast® signage is suitable for indoor and outdoor use.

Green Cast® sheets are routed and printed at our factory in Billund with the latest, energy-efficient technologies. All inks are GreenGuard Gold certified, verifying their low VOC and chemical emissions.

Disposal

At end-of-life, Green Cast® signs can be recycled repeatedly. Old signs can be shipped back to the Modulex factory in Billund, where they are sent back to the recycling process, closing the material loop. Likewise, Green Cast® signs can be recycled locally in disposal facilities with stream 7 recycling. Recycling acrylic reduces the volume of primary resources extracted to create new products and, in turn, reduces the amount of waste sent to landfill or incineration.

Circular Economy

Modulex has established a take-back program with its suppliers to reclaim Green Cast® waste from manufacturing scraps and post-consumer signage products and recycle it. Through this partnership, Modulex joins a circular loop which helps reduce extraction and support a circular and responsible production of acrylic.

Why Choose Green Cast® as a Green Signage Alternative?

- The carbon footprint impact is 75 % lower than virgin acrylic.
- Produced from 100 % recycled acrylic, minimizing the extraction of primary resources to produce it and thus protecting the environment.
- Green Cast® has the same properties, durability, and graphical possibilities as virgin acrylic.



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