SUSTAINABILITY

We Are A Responsible Manufacturer

CROSSEN ENGINEERING

As a leading responsible manufacturer, we have a long term strategy to reduce waste & minimise energy consumption throughout all stages of manufacturing.

We are committed on reducing our impact on the environment through sustainable development.
This includes:

- Utilising lean manufacturing techniques.
- Investment in energy efficient automation & machinery.
- Careful material procurement from trusted suppliers.

Crossen Engineering has invested in renewable energy in the form of solar panels since 2022.
This helps to minimise our dependancy upon less sustainable energy sources. Our company has a long established philosophy of recycling & landfill avoidance.

We are always looking at new ways to reduce our footprint and impact on the environment by having a programme of continuous improvement.

How we can help you with sustainability?

- Through working with trusted material suppliers.
- Advancements in a wide range of material options.
- Expert advice on material selection.
- Experienced design & lean manufacturing input into sustainable products.

What are the sustainable options?

- Additives made from organic, waste & recycled materials.
- Substitute to oil based resins for more sustainable parts.
- Using recycled thermoplastics for environmentally friendly products.
- Bio-based grades help to minimise impact with compostability.
- Plant based materials derived from renewable agriculture.
- Compliant food & non-food approved grade options.

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Case Study - Moulded Parts - Sustainable Solution - By Crossen

In collaboration with Lati UK, a European leader in technical thermoplastic compounds, and Bloc Blinds, an award-winning UK manufacturer of made-to-measure blinds, we have been working together to develop products using recycled polymers.

Material Overview

Lati's high-performance plastics technical team has developed LATIECO CR, a chemically recycled thermoplastic compound made from polymers recovered through advanced recycling processes. Waste materials such as fishing nets, carpets, and yarns are depolymerised into their original chemical building blocks and then repolymerised to produce plastics comparable in quality to virgin materials.

This process helps reduce carbon emissions while enabling the recovery of complex post-consumer and production waste streams that are not effectively processed through conventional mechanical recycling. Although chemical recycling is more complex and can have a higher environmental footprint than mechanical recycling, research indicates it typically offers a significantly lower impact than producing virgin raw materials, supporting broader circular economy and sustainability objectives.

Testing and Validation

Crossen Engineering, a manufacturing partner to Bloc Blinds, conducted a series of trials using the LATIECO CR material grades. The quality and inspection team at Bloc, tested the components using their in-house durability rigs and found that, after 1,000 cycles, the parts performed equally as well compared to those manufactured using virgin standard materials.

The verdict - From Bloc

We are pleased that our key supplier, Crossen Engineering, is committed to sustainable innovation and the development of new materials that support our carbon-neutral and climate-positive goals.

As a large manufacturer with a diverse product range, it is reassuring to work with a supplier that understands our requirements and actively collaborates with us to achieve our sustainability targets.

Being aware of the various recycled material options, combined with our rigorous in-house testing, ensures that we consistently maintain a high level of product quality without compromise when delivering our unique product to customers.

Vincent Kennedy (Quality Assurance Manager – Bloc Blinds)

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