

# What we do today resonates tomorrow.

The smarter approach to sustainable  
pallet wrapping has arrived.

Bind together. Send secure.

# NANO ECHO

Made from 30% recycled material, and with 55 layers of stretch and strength, NanoEcho quite simply delivers more protection while using less plastic.



NanoWrap, the original innovative nano-layer pallet wrap, provided Kiwi companies with a new way of wrapping pallets – one that was highly effective in stretch and load stability while using less plastic and weighing far less than traditional stretch film products. The gains made with NanoWrap have allowed these businesses to reduce plastic use by thousands of tonnes annually.

Now we've made another resounding change for sustainable distribution in New Zealand: NanoEcho.

This 55-layer stretch film is the result of years spent in diligent research and considerable technological investment. Made from 30% recycled material, it ensures distributors can dramatically reduce their reliance on traditional plastic sources. For businesses looking to increase sustainability capability without compromising pallet integrity and shipping peace of mind, this is the perfect choice.

## Features:

**Waste reduction.** Choosing NanoEcho makes a huge difference to the overall waste stream both in pre-use and post-use of the advanced film. This allows NZ companies to reduce their carbon emissions to meet and surpass sustainability goals.

**Advanced construction.** The innovative manufacturing technique joins multiple layers into an ultra-thin polymer. This process delivers 55 nano-layers of strength and provides greater stretch and containment force while using less plastic and keeping weight to a minimum.

**Load protection.** With a comparable film weight to NanoWrap, and similar stretch and containment properties, NanoEcho provides consistently superior performance and puncture resistance when compared to traditional stretch film.

 **55 Layers**

 **30% Recycled Content**

 **100% Recyclable**

## ISCC Plus Certification

The International Sustainability and Carbon Certification (ISCC) provides an independent standard for measuring and quantifying the true sustainable credentials of materials in the packaging industry. Products that carry the ISCC PLUS mark are guaranteed to have undergone a rigorous auditing process to ensure consistent traceability of raw materials used in production. NanoEcho is our first film to achieve this standard.







Images from a NanoEcho trial at DB Breweries.

## The Process. Quality in, quality out.

Not all recycled pallet wrap is created equal. Inferior raw material in some recycled products negatively impacts stretch and containment standards. Subsequently more plastic is needed to contain loads (and there is more chance of breakage and product damage).

To ensure NanoEcho could 'carry the weight' for the sustainability goals of Kiwi companies, a reliable original waste source was needed pre-production. A new recycling facility was opened in 2021 – one that could deliver this quality raw material with unerring consistency.

1.  Plastic is collected predominantly from post-industrial waste sources (although post-consumer waste is increasingly being sourced also).
2.  The waste is sorted by type, colour, and grade. This is a rigorous process that ensures plastics with similar properties in terms of chemical composition, melting point and contaminant levels can be grouped together.
3.  The plastic is passed through a shredder to prepare it for processing. This granulating process also exposes any remaining impurities in the plastics.
4.  The shredded pieces are melted and transformed into resin pellets, which can be mixed into the plastic production line based on an extrusion formulation.





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