PCR MATERIAL

Sustainable Plastic Packaging Solution

Recycled today · Greener tomorrow

PCR stands for Post-Consumer Recycled material. It is made from plastic waste that has already been used by consumers – bottles, films, packaging, and other plastic products – then collected, sorted, cleaned, processed, and turned into new raw material.



Why Choose PCR Material?

LOWER CARBON FOOTPRINT
Using PCR material significantly reduces energy consumption and carbon emissions.

LESS WASTE TO LANDFILL
Post-consumer recycled plastic keeps packaging waste out of landfills and oceans.

RESOURCE CONSERVATION
It cuts demand for virgin fossil-based plastic, preserving finite natural resources.

CIRCULAR ECONOMY SUPPORT
PCR keeps plastics in repeated product cycles instead of becoming single-use waste.

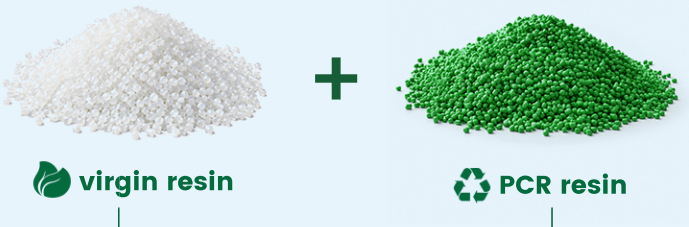
MEET MARKET DEMAND
PCR packaging helps brands comply with global green standards and satisfy eco-conscious buyers.

Our PCR Packaging Solutions

At Threestone, we have been actively integrating PCR materials into our flexible packaging solutions. We source high-quality post-consumer recycled resins – including PCR-PE (polyethylene) and PCR-PP (polypropylene) – and incorporate them into flexible film structures for a range of applications.

1 PCR Material Content

The right balance of performance and sustainability.



PCR Content Options

- 30%PCR
- 50%PCR
- Custom PCR Content

2 The Performance of PCR Material Packaging

Through extensive validation, we have confirmed that properly formulated PCR materials can deliver performance comparable to virgin resins in many applications. Our films maintain:

- **Consistent Mechanical Properties:** Maintains tensile strength, puncture resistance, and tear resistance.
- **Reliable Processability:** Stable performance on printing, lamination, and high-speed filling lines.
- **Optical Clarity & Printability:** High-quality aesthetics for your brand.

3 Flexible Packaging Range

We offer a wide range of PCR flexible packaging to meet different product needs.

- Stand up pouch
- Spout pouch
- Flat bottom pouch
- Roll film
- Other custom packaging



4 Why Threestone? Mastering the Integration Challenge

Integrating PCR is not just a case of swapping one resin for another; it requires deep technical expertise. Our technical team works closely with material suppliers to qualify new PCR grades, optimize manufacturing processes, and ensure every reel meets the standards our customers expect.

Careful Material Selection

Choosing the right PCR grade for the right application.

Process Optimisation

Adjusting extrusion, lamination, and sealing parameters to accommodate the different melt behaviour of recycled resins.

Quality Control

Implementing rigorous incoming inspection and batch traceability to ensure consistency.

Supply Chain Management

Securing reliable, long-term sources of high-quality PCR in a market where demand often outstrips supply.

One Part of a Bigger Picture

PCR is a powerful tool, but it is not a silver bullet. True sustainability in flexible packaging requires a systemic approach – and that is exactly what we are building at Threestone.



PCR works alongside our other sustainability initiatives:

Mono-material Recyclable Designs

Making sure the packaging itself can be recycled at end-of-life.

Solvent-free lamination

Eliminating VOC emissions from the production process.

Green manufacturing

Powered by rooftop solar PV, with waste gas treatment and heat recovery systems.

Lightweighting

Reducing material usage without compromising performance.

Each of these elements reinforces the others. PCR reduces the demand for virgin plastic. Mono-material design ensures the package can be recycled into future PCR. Clean manufacturing reduces the carbon footprint of production. Together, they form a coherent, circular system – not a collection of isolated initiatives.

At Threestone, we are committed to scaling our use of PCR material

– not because it is trendy, but because it is the right thing to do. For the planet. For our customers. For future generations.

If you would like to explore how PCR can be integrated into your packaging, we are ready for a conversation.