

Company Introduction



WHAT WE DO

We convert post-consumer waste materials from the electrical and retail sectors into the highest grade, award winning recycled polymers in Europe.

We operate a unique process technology, which converts a rapidly growing plastics waste stream into really useful, 'new-life' plastic materials. Successfully recovered and reprocessed, our polymers can be used in a wide range of applications; helping customers to save the environment and lower their carbon impact.

In addition to our range of recycled polymer resins, we also make extruded sheet products to satisfy the demands of thermoforming and vacuum moulding applications. Our sheet products are used by customers to manufacture a wide range of goods including horticultural pots and trays.

WHAT MAKES US DIFFERENT?

In our highly advanced, purpose built factory in Manchester, we remove contaminants from waste plastic and carry out advanced, unique sorting and separation processes to refine the feedstock. High purity, single-polymer chips are then extruded into resin pellets and foil sheets in accordance with ISO9001 quality standards.

We make sure that our polymers are fully traceable from the end-user polymer grade right back to the origin of the waste feedstock. Knowing the source of the raw materials adds value for our customers when specifying Axpoly products in closed-loop applications. For example, when making washing machine parts, why not use plastic recovered from 'fridges'?

Axion Polymers has signed up to the Carbon Trust's agreement on carbon saving, becoming the first polymer producer in Europe to offer a product with a fully certified Carbon Reduction Label. We have therefore committed to reducing their carbon footprint over the next few years.

Customers choosing our products benefit from high quality standards, full traceability, monitored carbon impact and polymer performance that equals that of virgin polymer grades.

TEN REASONS TO CHOOSE AXPOLY®

1. Successfully replaces virgin grade resin
2. Award winning product
3. ISO9000 quality certified
4. Sustainable raw material
5. 80% less CO₂
6. Appeals to 'greener' customers
7. 100% post-consumer
8. Can be recycled again
9. Saves the Planet
10. Nice people to work with



AXION'S PRODUCT RANGE

We supply 3 types of plastic product:

- Axpoly® resin;
- Axfoil® extruded sheet;
- Axplas® chip.



Axpoly plastic compounds are 100% recycled, extruded resin pellets produced from traceable waste feedstock sources, so the purchaser can be completely assured of the origin of the material. Available as High-Impact Polystyrene and Polypropylene grades, Axpoly can be supplied in 1 tonne big bags, 25 kilo sacks or full-bulk containers.

Axpoly resins offer huge carbon savings compared with virgin polymers made from oil-based feedstock. Axpoly PS13 was the first polymer in Europe to be awarded a certified and audited Carbon Reduction Label. This confirms that each tonne of PS13 has a footprint of 600kg CO₂ eq., compared with virgin polystyrene with a typical footprint of 3,400kg per tonne. Axion Polymers has committed to further reducing this carbon footprint.

reducing with
the Carbon Trust



600kg
CO₂
per 1 tonne bag

carbon-label.com

The carbon footprint of this 1 tonne bag of Axpoly PS13 recycled plastic is 600kg and we have committed to reduce it. This is the total emissions of carbon dioxide (CO₂) and other greenhouse gases produced during its collection and recycling back into useful polymer.

The use of this Axpoly grade has an 82% lower carbon footprint than the equivalent polystyrene material made from virgin oil-based feedstock, which has average CO₂ emissions of 3,400kg per tonne (as reported by Plastics Europe, the European trade association for the plastics industry).

Carbon Label used on Axpoly PS13



We can also extrude our polymer resins into Axfoil sheet, meeting the demand for products in the thermoforming, vacuum-forming and sheet conversion markets. Axfoil offers the same user benefits as our Axpoly grades: full traceability of feedstock origin, high manufacturing quality standards and huge carbon savings. Axfoil is available in various thicknesses ranging from 0.5 to 1.7mm and is supplied on reels; maximum size 800kilos, minimum size 200kilos.



Axplas materials are by-products of our processes and contain a mix of engineering polymers. They are derived from post-consumer and post industrial in-feed materials that have been cleaned and separated, offering customers a source of low-cost feedstock.

POLYMER MODIFICATIONS:

In addition to our standard grades, we can satisfy individual customer requirements for special blends to meet performance requirements by modifying our polymer properties through the addition of:

- Colours;
- Impact modifiers;
- Fibres;
- Fillers;
- Flame retardants.

If a customer requires a specified grade, targeted on a particular product application, we can benchmark samples to match data on existing polymers and offer technical assistance on injection moulding and thermoforming.

Our technical team can carry out and monitor processing trials to ensure that we reach the optimum solution for each customer application.

Contact us

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