

Axion Polymers Laboratory Services

What's in your plastic?

Recent changes in legislation such as REACH and the Waste Framework Directive have led to stringent demands from customers to identify polymer types, understand the additive content of plastics and to test new sources of raw material supply.

Plastics recyclers in particular have an increased need to be knowledgeable about polymer types and additive content and this can only be determined by thorough and detailed laboratory analysis. It is no longer acceptable to place goods on the market with a rough verbal indication of the polymer type or to claim ignorance about the levels of any undesirable additives. The sale of recycled plastics is changing from an environment of 'buyer beware' to one where the customer has the right to demand detailed specification and material data sheets concerning the product being supplied and the supplier has a legal obligation under REACH to supply this data and also specify the possible safe applications for the material.

Axion Polymers now offers a laboratory testing service which gives comprehensive, low-cost, polymer sample testing and analysis using its wide range of advanced testing equipment. Axion's state-of-the-art laboratory services will identify polymer type, establish the presence of key elements within the material and measure the physical properties of samples as small as 1 kilogram. Assistance can also be provided with the preparation of material data safety sheets for recycled polymers. We are also able to propose statistically rigorous sampling methods from bulk material streams based on industry recognised standards.

Why use us ?

Axion Polymers' new plant is one of the most advanced plastics recycling factories in Europe. The plant separates and compounds recycled plastic, extracted from Waste Electrical and Electronic Equipment (WEEE), as well as providing recycling routes for other 'difficult', highly-mixed waste plastic streams.



Recent investment includes state-of-the-art laboratory equipment and well qualified, experienced staff to conduct extensive plastics process testing at Axion Polymers' 40,000 sq ft premises in Salford, Greater Manchester. Here Axion's growing team has developed market-leading technical processes to ensure consistent product quality and market leading technical specifications for recycled materials.

Interested ?

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WINNER



Axion - Innovative resource recovery

OUR SERVICE

Axion can pre-test potential new sources of polymer feedstocks before you invest time, effort and money in full scale production trials. Our pilot-scale facility can duplicate a full scale process from raw material separation right through to injection moulding of finished polymer resin.

Axion can offer a low cost, comprehensive service including:



POLYMER TYPE IDENTIFICATION BY IR

- identify polymer types including PS, ABS, PC, PE, PP, PE/PP blends, PVC, PA, POM, PIMMA, PU, EVA, SAN
- identify composition of sample

SIEVE ANALYSIS

- determines particle size distribution

ADDITIVE ANALYSIS BY X-RAY

- determine the presence of heavy metal and halogen elements at ppm levels

TENSILE TESTING

- strength of materials under tension

IMPACT TESTING

- measures energy required to break sample

MELT FLOW INDEX

- determines thermal melt properties

DENSITY ANALYSIS

- shows density distribution of mixed particulates

SAMPLE COMPOUNDING

- determines suitability for extrusion and injection moulding

ASH LEVEL IN OVEN

- level of inorganic fillers in sample

MANUAL SORTING

- characterises sample by material type where analytical techniques are unsuitable

Our technical staff can prepare Material Data Safety Sheets on your behalf.