ARC LABS

Agilyx is at the forefront of developing breakthrough technologies and processes to help solve the problem of plastic waste with over than a decade of experience as plastic depolymerization and advanced recycling industry leaders.

agilyx research center

Services we provide

ARC LABS provides **characterization** and **identification** of plastic streams that can be turned into **feedstock** sources matched to typical or advanced recycling processes.

Services range from sample analytics to small-scale lab, through pilot plans, full-scale identification, and design of commercial facilities.

We also offer Certificates of Analyses (COA's).

Experts in chemical characterization of plastic waste

Using our **extensive database** of polymer and mixed polymers (including co-polymers, binders, multi-layers), plastics sources can be matched to provide rapid turnaround of suggested pathways. Follow-up with physical **characterization,** pilot-scale **processing**, pre and post- processing treatment and sample generation provide data that can be used as design input for **full-scale process design projects.**

Rapid matching using our extensive feed-to-product database	Feed characterization services	Detailed feedstock specification definition
Bench and pilot-scale advanced depolymerization	Generation of multi-liter quantities of products for evaluation purposes	Pre and post-process treatment
Feed, product and by-product physical and chemical analysis	Packaged Feasibility Studies	Providing Experimental Data Inputs for scale-up and commercial designs

TURNING PLASTIC WASTE INTO VALUE

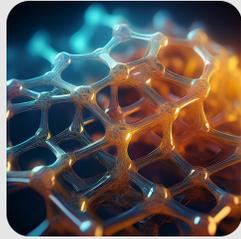BECOME A PART OF THE SOLUTION: INFO@AGILYX.COM

Our innovative feed characterization solutions

Building on over 10 years experience characterizing complex plastic feed streams for advanced recycling ARC Labs offers the following.

Polymer Identification:
Composition breakdown by polymer type from single-source materials to complex mixed feeds and full bales.

Elemental Composition:
Identification of elements of interest - e.g. fillers, heavy metals, halogens. CHNS(O) Composition.

Physical Properties:
Moisture content, particle size, fines, ash content.

Material Report or CoA
Data compilation into a comprehensive report or Certificate of Analysis (CoA). ARC Labs can also help define suitable customer or supplier advanced recycling feed specifications.

Helping our customers recycle plastic waste

- Do you have plastic waste or hard-to-recycle or unrecyclable plastic?

- Do you need to characterize a material to assess it's suitability for an advanced recycling process?

- Do you need to develop a customer or supplier feedstock specification?
  ARC Labs has **experience** characterizing **complex feeds** for commercial advanced recycling processes; developing **specifications**, **sampling plans** and **QC/QA documentation**.

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