

MAKING THE WORLD A BETTER PLACE



ACI PLASTICS
An American Commodities Co.

Reprocessed
Engineering Thermoplastics



TECHNOLOGY AND PATENTS

American Commodities, Inc., is a unique compounder, processor, and recycler of Engineering thermoplastics.

We provide state-of-the-art recycle-oriented thermoplastic resins for injection mold and extrusion applications. Our recycled materials perform with the same characteristics, quality, consistency and predictability as the virgin resins they replace. All of this is combined with a significant cost savings

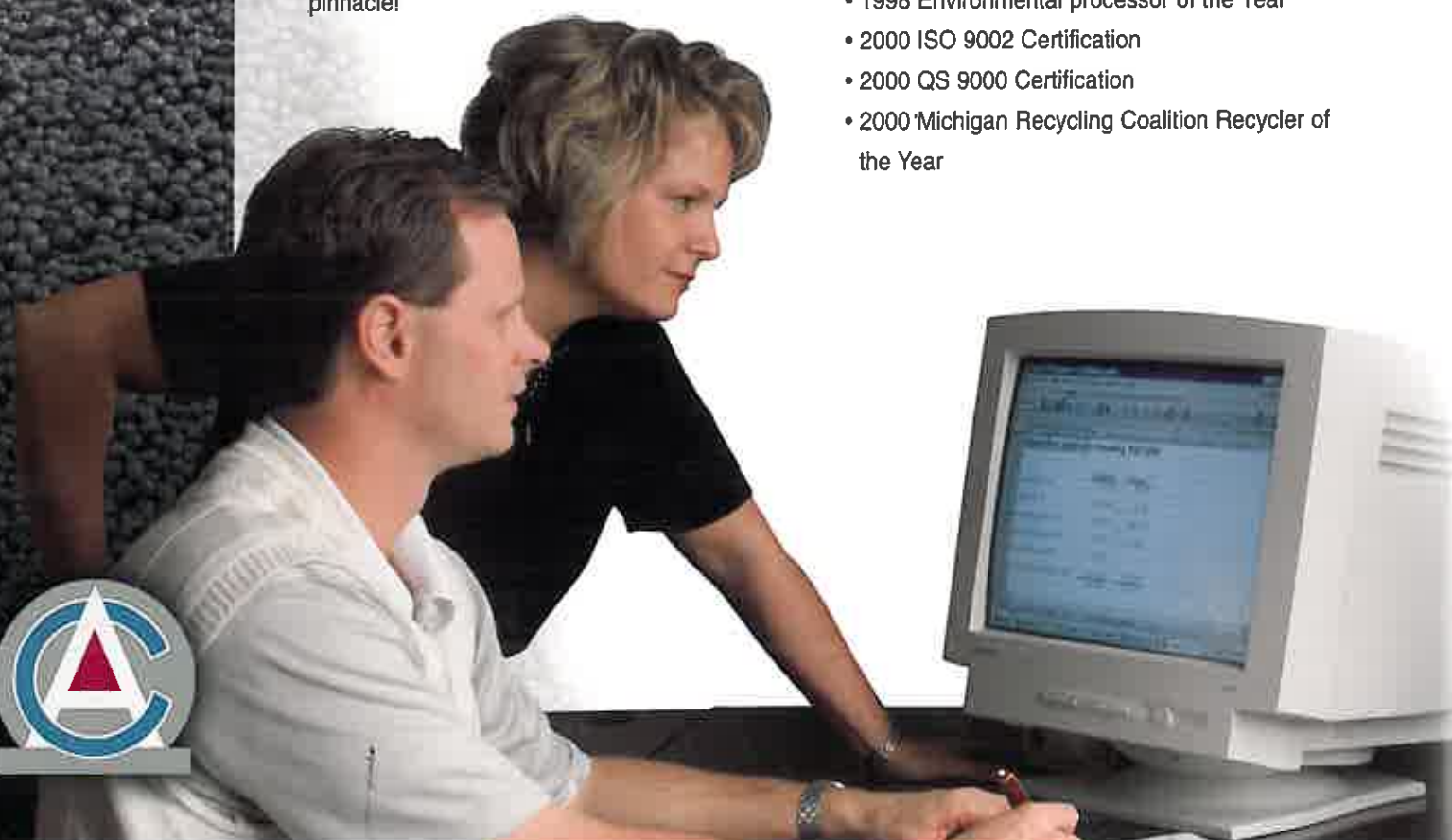
compared to the cost of virgin materials.

We also have developed and patented a number of specialized technologies that provide a means for our customers to recover and recycle the scrap they generate. These materials are reprocessed and rejuvenated so they may be used within their originally intended application. This system enables the customer to use virtually all of the material they purchase for a project. This translates to improved efficiency and significant cost savings.

Accreditation and Awards

We believe success begins with a personal and professional attitude complimented by talent, commitment, resources and teamwork. It is the culmination of these attributes that has enabled us to achieve the following accreditation and awards:

- 1991 Michigan Recycling Coalition Recycler of the Year
- 1995 Ford Motor Company's Q-1. We are the first supplier of our kind to ever reach this pinnacle!
- 1995 Product of the Year Award
- 1995 Industrial Innovation of the Year
- 1995 Leading Edge of Technology
- 1998 Vision for America Award
- 1998 Environmental processor of the Year
- 2000 ISO 9002 Certification
- 2000 QS 9000 Certification
- 2000 Michigan Recycling Coalition Recycler of the Year



QUALITY AND CLOSED LOOP RECYCLING



Quality

Our facility is equipped with a comprehensive laboratory that includes a wide range of specialized testing equipment. Our laboratory routinely performs testing of mechanical and physical properties of plastic materials as well as contamination analysis. Our recent QS 9000 certification exemplifies our commitment to quality. Strict practices of statistical process control enable us to meet the most demanding performance requirements.



Closed Loop Recycling

Our patented closed loop recycling system is engineered for restoring properties of materials that have seen previous heat histories. The reprocessed material can then be re-used in its originally intended application with no detrimental effects to the finished product. This process can actually restore degraded material properties and increase molecular weight, making it the system of choice for many OEM molders.

Compounding

Our facility is equipped with the latest state-of-the-art single and twin screw compounding equipment. Each of these instruments incorporates computer controlled operation and data acquisition to ensure the optimum product quality and lot-to-lot consistency.



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POST CONSUMER AUTOMOTIVE PLASTIC RECOVERY

Post-consumer Recovery

Through our very successful post-consumer automotive plastic recovery program, ACI has prevented millions of cubic feet of automotive plastics from being disposed of in a landfill. Our program allows us the opportunity to collect material from automotive dismantlers across the United States and Canada. This material is then processed in our closed loop recycling system and can again be used in the manufacturing of new automotive parts.

Custom Processing

Our custom processing programs allow us to provide many full-scale services. Through individual consultation, we are able to create customized processes and programs for each of our customers to fit their specific needs. These include creating special compounds to meet customers' specifications and economic requirements.

Post Consumer Re grind



Enviraloy PCX601

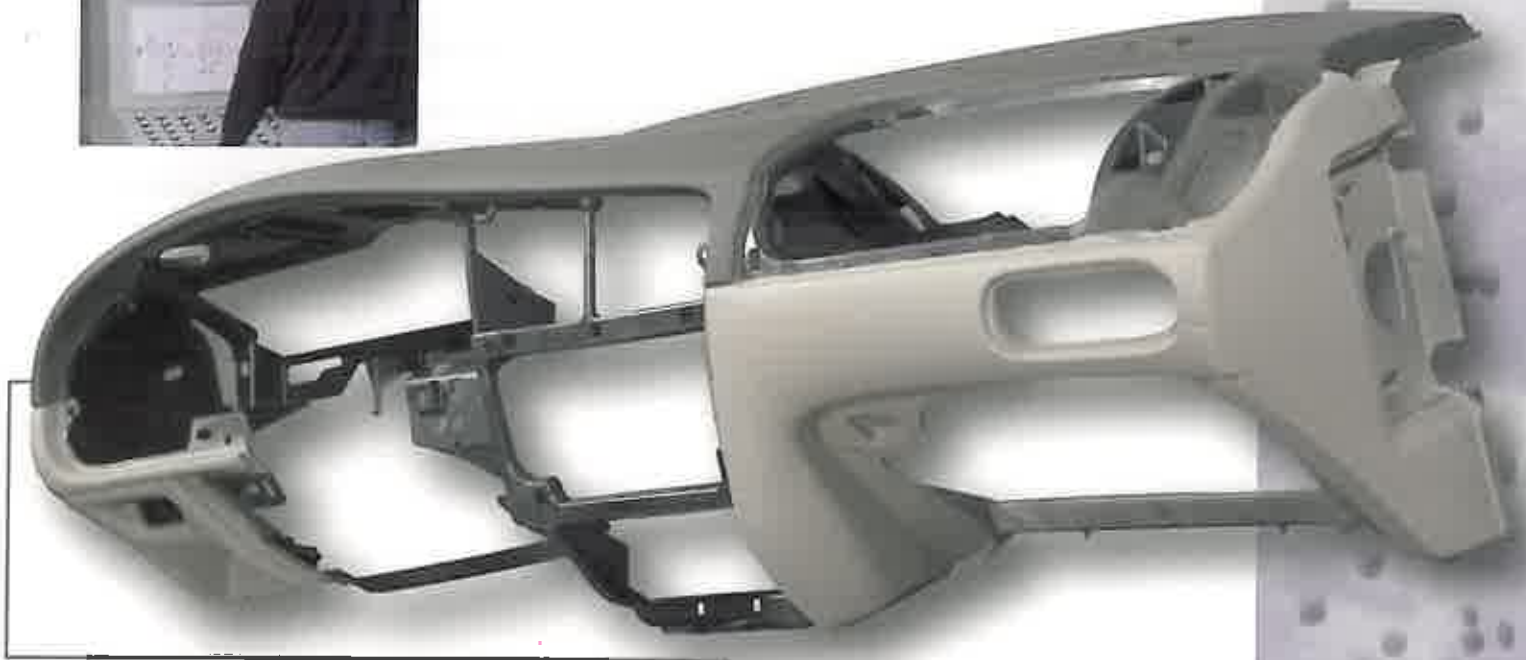


Creates



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MULTI LAYER PLASTIC SEPARATION

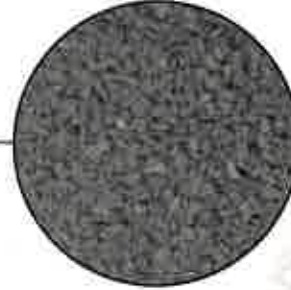


ACI/WIPAG has commercialized a new technology in North America for recycling multi-layer automotive instrument panels and door panels. The most common composition of automotive instrument panels is currently a multi-layer technique that utilizes a rigid substrate, foam layer and vinyl skin to create a padded, soft instrument panel. Our new automated system delaminates and separates the three individual materials. This process results in three separate, autonomous pure streams of raw materials: The Substrate, The Foam and The Skin. We are able to obtain purity levels greater than 99.98 percent. Having this ability for the first time enables our customers to reuse the various streams back within the original part. By reintroducing this material in a blend with the virgin material, a product is created that performs in accordance with all specification requirements, and at less cost.

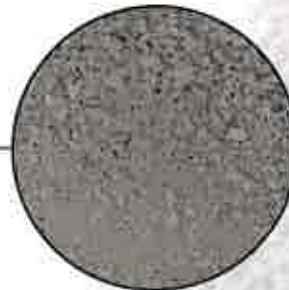
Skin



Substrate



Foam



PRODUCTS AND SERVICES



Impact™ products are manufactured using post-industrial plastic materials recovered specifically for the production of this product line. Impact™ is available in the following base resins:

- ABS
- Nylon 6
- Nylon 6/6
- Polycarbonate
- Polycarbonate Acrylic Alloy
- Polycarbonate-PBT Alloy
- PPO-PA Alloy
- TPO



Services

ACI offers the following services to our customers:

- Closed Loop Recycling
- Compounding
- Consulting
- Contamination Removal
- Dry Blending
- Fine Separation
- Lab Testing
- Metal Separation
- Multi-layer Plastic Separation
- Paint Removal
- Size Reduction/Grinding



Products

Enviroloy™ products are manufactured from post-consumer plastic materials recovered specifically for the production of this product line. Enviroloy™ is available in several base resins, including:

- ABS
- Nylon 6
- Nylon 6/6
- Polycarbonate
- Polycarbonate Acrylic Alloy
- Polycarbonate PBT Alloy
- PPO-PA Alloy
- TPO



Full-service Logistics

ACI offers a Full-service Logistics department to assist with your shipping needs. Let our Logistics department arrange both the pick-up and delivery of your material. This is just another benefit to our Closed Loop Recycling service.



FABRICATION AND GLOBAL SERVICES

Fabrication

ACI's equipment engineering/maintenance department is staffed with expert tradesmen. Their skills enable us to design, engineer, fabricate and install all types of specialized processing equipment and keep it in perfect working order.



Global Services

ACI has expanded to bring our products to the global market-place. We currently have locations in Flint and Auburn Hills, MI, as well as partnerships in Kent, Great Britain and Neuburg, Germany.

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