

## Services:

In addition to the ongoing development and manufacture of a proprietary line of PVC pulverized products for processors and OEMs [See Products], Return Polymers also offers a complete line of recycling services.

- 1) Custom Material Cleaning & Grinding: Customer components or scrap can be sorted by color and overall quality. It can then be cleaned through a series of proprietary processes for metal separation, paper separation, dust minimization, laminant removal, woolpile removal and removal of all non-PVC components. It can then be ground to customer size specification prior to return to the client. Color integrity and input purity are maintained through a complete tear-down cleaning procedure and the usage of a multitude of metal detection and proprietary systems.
- 2) Custom Pulverizing: Customer regrind or materials are formulated and pulverized through a pulverizer bank until the size is reduced to a 20 mesh nominal. Color integrity and input purity are maintained through a complete tear-down cleaning procedure and the usage of a multitude of metal detection and proprietary systems. The current options available are customer input materials only, customer input materials augmented by Return Polymers' feedstock, and customer input materials with a color or additive system incorporated during the pulverization system.
- 3) Custom Blending: Consistency and quality affect all aspects of manufacturing. Return Polymers has two discrete blending options for our clients;
  - a) Small Lot and Regrind Blending: In order to minimize the opportunity for particle cross-contamination an independent regrind blending system allows Return Polymers to create uniform regrind blends.
  - b) Large Lot / Pulverized Blending: Return Polymers has invested significant time and capital in the development of twin 100,000 lbs. blending systems. The proprietary mechanical system combined with a statistically proven procedure ensures our clients obtain consistent blends. The system is capable of gaylord boxes, supersacs or bulk truck transfers.
- 4) Dedicated White Recovery System: In order to mitigate all opportunities for cross contamination, Return Polymers has commissioned and installed a dedicated white recovery system. It is the only known dedicated white system in the PVC industry.
- 5) Optical Sortation: Return Polymers has a state-of-the-art Optical Sortation System that allows it to ensure virtually 100% accuracy in the separation of color families while in the regrind form.
- 6) Product Development and Technical Support: Return Polymers has over 40+ years of PVC processing and development expertise. In support of our clients' development efforts to use our proprietary products, we'll assist in product development / design, formulation development, production trials and specification development.
- 7) Logistics Services: A large component of effective recycling is the ability to minimize logistical costs. Return Polymers manages over 4,000 loads annually throughout the entire North American network using all modes of transportation [intermodal, flat beds, vans, curtain-side, moving bottom]. Return Polymers also has the ability to simplify the collection process for the client through various staging protocols.

- 8) **Packaging Services:** In order to allow easier collection of the PVC scrap, an option available is the distribution of collection containers. Return Polymers will also collect used gaylords and supersacs such that you do not need to incur the disposal costs.
- 9) **Assured Destruction / Compliance:** Return Polymers routinely provides certified documentation that an OEM product has been disposed of in an environmentally responsible manager as well as ensured that all identifying marks, logos or trade references have been eliminated.
- 10) **Non PVC Scrap Programs:** As a component of an enterprise recycling program, Return Polymers is capable of facilitating the recycling of non PVC components or scrap as a component.
- 11) **Recycle Certification & Site Audits:** Return Polymers will perform waste / recycling audits and document opportunities to mitigate disposal costs and maximize the value of the recycle streams. In addition, Return Polymers is capable of assisting in the obtainment of third party “green” certifications.

**QC and Development Laboratory Capabilities:**

The QC laboratory is the hub of the entire operation. Every pound of product undergoes mandatory testing after each unit operation to ensure compliance to our customer specifications. It is staffed 24 hours a day with ongoing training and annual re-certification requirements. The testing completed onsite is as follows:

- Bulk Density / Funnel Flow
- Contamination Studies
- Dynamic Stability Studies
- Extrudability
- Gardner Impact [instantaneous, after aging, post water immersion]
- Hunter / CIE\*Lab Color Analysis
- Particle Size Distribution
- Torque Rheological Studies – [fusion time, fusion temperature, equilibrium torque]
- Specific Gravity
- Material Identification and characterization
- Third party contract services are used when additional testing or development is essential.

**Accreditation / Certifications:**

As an ongoing commitment to continual improvement and innovation, Return Polymers has achieved multiple accreditations and certifications.



**Underwriters Laboratories, Inc. (UL)**

- Component Plastics File E317350 approval since 08/2010 for UL Certified product family – RP2008
- Quarterly audits since 2010 without a single recordable or required action.

**GreenCircle Certified, LLC**



- First PVC recycling operation to achieve a third party certification for recycle and post-consumer content in accordance with ISO 14021. It was achieved in 2010.
- Five certification levels were recertified that can be universally applied to RP standard products.
  - Certificate 12-0060 – 100% Recycle Content
  - Certificate 12-0061 – 100% Recycle Content, Minimum 10% Post Consumer Content
  - Certificate 12-0062 – 100% Recycle Content, Minimum 25% Post Consumer Content
  - Certificate 12-0063 – 100% Recycle Content, Minimum 50% Post Consumer Content
  - Certificate 12-0064- 100% Recycle Content, Minimum 100% Post Consumer Content