

Expand the Shrink Cycle and Recycle



Introducing BONPET RENEW™
The complete shrink film solution
to promote a circular economy.

-  Recycle-Friendly Heat Shrink Film for Labels and Packaging Applications
-  Compatible for reclamation with PET Bottles
-  Recognized by the Association of Plastics Recyclers (APR)

Heat Shrink Film and Mechanical Recycling

Traditional heat shrink film labels are not compatible with PET mechanical recycling process and impede recovery of usable PET bottle flake or are directed to waste stream. The labels when recycled tend to clump and cause processing problems. The solution to address this issue is to create a heat shrink film label that is compatible with the PET recycling process using crystallizable PET Resin.

Clumping of PET flake



Crystallizable PET resin

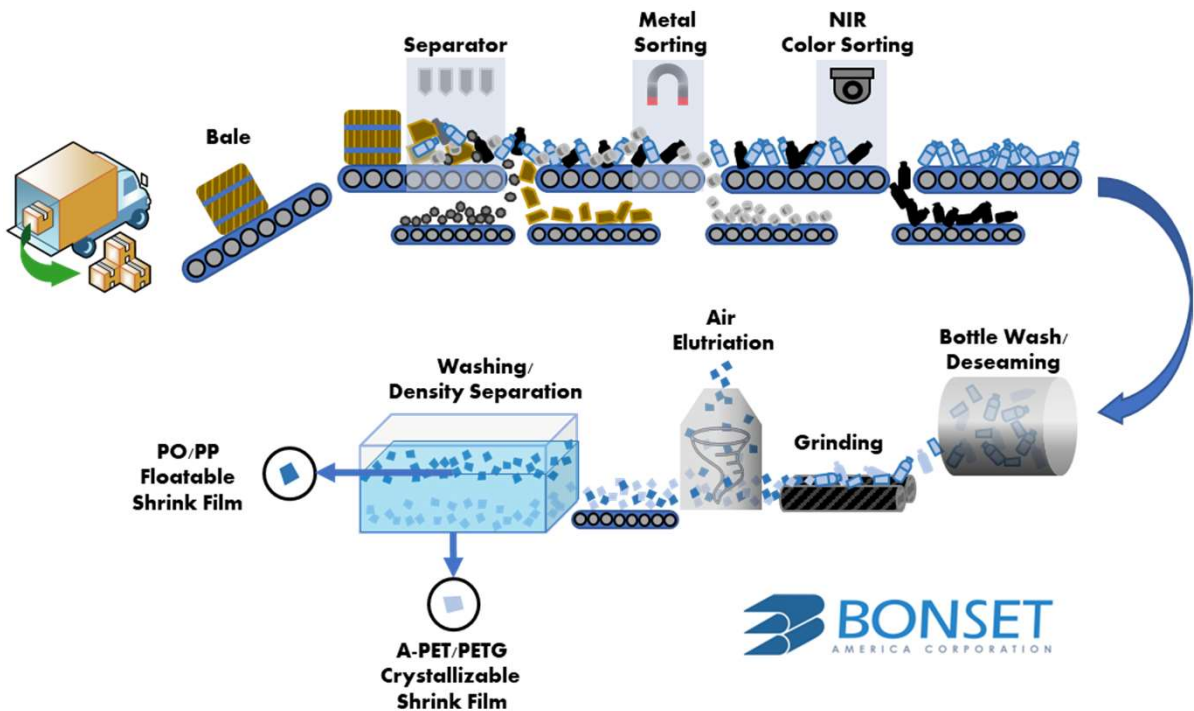


Mechanical Recycling

First, the bale is conveyed to the initial separator where large and heavy items are sorted such as rocks and cardboard.

Next, the metal separator ejects cans or metal items.

Then the Near-Infrared Sorter (NIR) sorts various materials based on wavelength of infrared light. The remaining bottles are then washed, de-seamed and subjected to a grinding process.



The flakes are sent through air elutriation where the lighter particles are blown into a waste stream and the remaining flake are conveyed and separated by density in an additional washing process. The streams from the last washing process yield floating particles that will be sent for additional sorting/recycling and sinking particles that will travel to the PET recycling process.

Crystallizable PET Heat Shrink Film

BONPET RENEW™ is an exclusive PET heat shrink film representing our contribution to support sustainable commitments of Brand Owners to reuse, recycle, reduce plastic in packaging.

BONPET RENEW™ contributes favorably to increased recovery of PET flake in PET recycling process (increasing yield). This will allow designers to create attractive full-body sleeves for creating 360° graphic label designs to appeal to consumers without the negative consequences associated with traditional sleeves in PET recycling process.



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