



## The Technology Leader in Recycled Polyolefin Resins



The only FDA approved,  
food grade HDPE PCR  
in North America



High speed, high output,  
custom color sorted HDPE PCR.  
Don't just recycle the plastic,  
recycle the color.

# About Envision Plastics

## History

- > Started in Reidsville, Rockingham County in June 2001
- > Bought FCR's Plastics Recycling business from Casella Waste, and Union Carbide's Plastic Recycling business in Bound Brook, NJ
  - Combined these two businesses in Reidsville
    - Upgraded and expanded the Reidsville FCR plant and integrated the Union Carbide equipment
- > Today Envision recycles 85,000,000 pounds of HDPE bottles per year in Reidsville that would otherwise be landfilled
- > Recycling is a job creator. We currently employ 84 persons in Reidsville, an increase of 20 positions from a year and a half ago

## #2 HDPE Plastics Recycling

### Turning Trash Back into Valuable Raw Material



- > Buying baled scrap from communities and waste haulers
- > Providing compensation for collection and separation costs

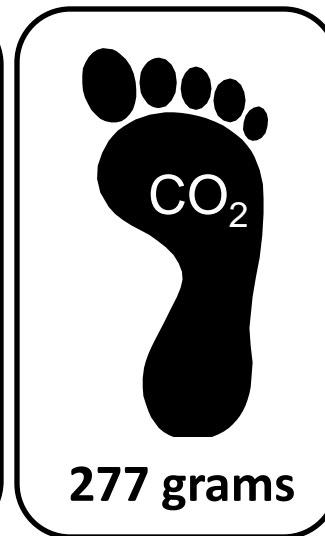
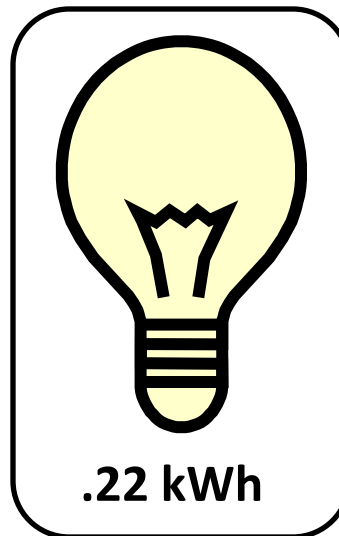
# Plastics Recycling Process Cycle



# Environmental Impact

## Resources Consumed to Produce One Pound of Recycled Resin

- > The production of recycled plastic resin uses far less resources than producing new, virgin plastic resin



- > Production of recycled resin uses 90% less energy and emits 78% less greenhouse gases than virgin
- > Moreover, recycling plastics creates 6 times more jobs than landfilling recyclables and 36 times more jobs than incinerating them



# Customers and Companies that Use our Products



ESTÉE LAUDER



method.



AVEDA

L'ORÉAL

seventh  
GENERATION.



Kimberly-Clark



DANONE



Johnson & Johnson



klöckner pentaplast



Unilever



amcor



BEMIS



ALPLA



TRICORBRAUN  
the power of options



## Recycled Resins are Used in Demanding Applications

- > Two of our most technically advanced products require high quality scrap materials
- > PRISMA™ custom color sorted HDPE recycled resin
  - Recycling color not just the plastic
- > EcoPrime™ – the only FDA approved HDPE PCR for use in food contact applications
  - Absolute purity of product is required for a food grade recycled resin

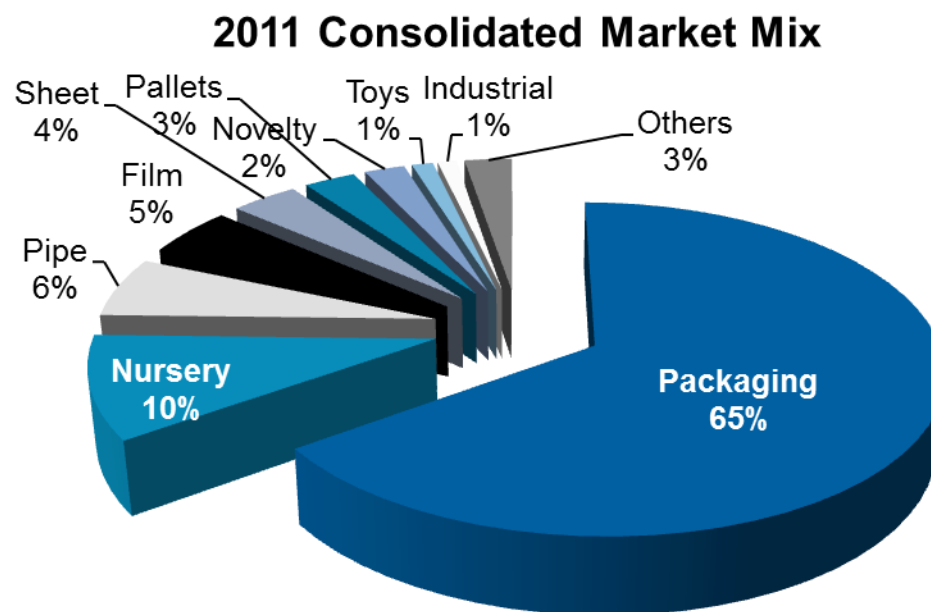


**EcoPrime food grade recycled resin is used in many food contact applications**

# Recycled Resins are Used in Demanding Applications

## Product Quality is Essential to Demand for Recycled Materials

- > 70% of our recycled resin goes into value added products, not downgraded or “downcycled” products
- > Our customers are looking for recycled materials that have physical properties that are equal to or nearly equal to that of virgin materials
- > These physical properties are what drives the performance of our customers’ products





# Recycled Resins are Used in Demanding Applications



## Product Quality is Essential to Demand for Recycled Materials

- > As a result, for every pound of scrap plastic that we purchase, we currently yield only 80% of that in saleable material
- > The 20% yield loss is made up of contaminants that are either incompatible with HDPE plastic or degrade its physical properties and, therefore, its performance in molded products
  - Other plastics: Polypropylene, PET, PVC
  - Additives to plastics that act as fillers or degrade the plastics performance
  - Aluminum and steel cans
  - Glass, grit, dirt



**Products using Envision's  
PRISMA recycled HDPE resin**

# Degradable Plastics and Additives that Enable Plastics to Degrade

## Compatibility with Recycling Processes is Not the Issue

- > Degradable plastics are clearly a new contaminant to enter the waste stream
  - ***Anything that will reduce physical properties of the recycled resin is a contaminant***
  - As recycled resin physical properties are eroded by the introduction of degradable resins, demand will also erode
  - Undermining all of our efforts to build a recycling infrastructure, keep plastics out of landfills and, guess what? ...create jobs in North Carolina
- > *Envision Plastics opposes the introduction of degradable plastics and additives that enable plastics to degrade in the waste stream*



Method Ocean Plastic Bottle Project





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<http://envisionplastics.wordpress.com>



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