Carolina Recycling Association Presentation
March 23, 2015

Wellman Plastics Recycling, LLC. Operations

Wellman Plastics Recycling Site – Johnsonville, SC

(2 million square feet under roof)

Wellman Plastics Recycling Employment

- Currently Employ more than 800 Wellman Employees.

- Employ more than 200 Contract Employees

Wellman Processes

- Pet Recycling Facility
  1. **Sorting and Granulation**
  2. **Washing Process 190,000 Annualized Lbs.**
  3. **Processes in excess of 220,000,000 lbs of PET Bottles Annually**
- Fiber Plant
  1. **Fiber Production – Main product is Fiber Fill Fiber using recycled PET Bottles and other Fiber Waste Streams.**
- Bldg 12
  1. **Patented Process to Separate Nylon from PP.**
  2. **Carpet Sheering Operations**
  3. **Carpet Grinding Process**

Wellman Processes

- Engineering Resins

1. **Compounds Nylon 6 and 66 into an Engineered Resin.**

2. **Extrudes PP/Nylon By-Product into a Pellet Form.**

Welcome To Wellman Engineering Resins

- We are the world's largest recycler of carpeting.
- 2 Million sq. ft. facility near Myrtle Beach, South Carolina.

Wellman Engineering Resins

- World's largest recycler of nylon
- Over 130 grades of PCR and PIR grades
- Over 200 automotive OEM material specification approvals
- ISO/TS 16949, ISO 14001 and ISO/IEC 17025 certified
- Forty year heritage in automotive
- **ECOLON™** is our fastest growing product line with over 200,000,000 lbs. sold since 1996.

Wellman Engineering Resins Vision

As leaders in environmental stewardship and in partnership with our customers, we will create value together by diverting 200 million pounds of carpet from landfills per year by 2015.

Wellman Engineering Resins Mission

We will continue to follow our recycling heritage and innovate in carpet recycling technologies to meet customer performance expectations with environmentally friendly **EcoLon™** products

EcoLon™ is the only 100% post consumer recycled resin from carpet offering unmatched quality and consistency to our partners.

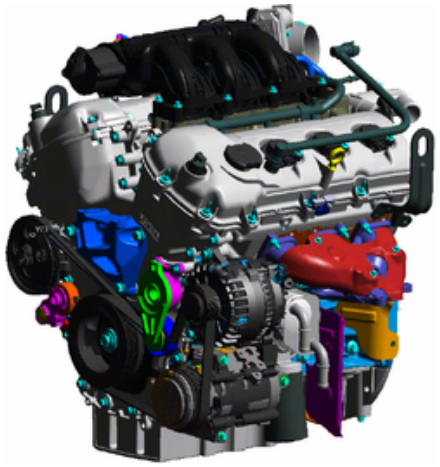
Relationships with customers create green solutions that add value with **EcoLon™** innovation and application development.

Current Situation

- Federal regulations have shrunk the number of landfills in the United States from about 8,000 in 1988 to about 1,600 today (source: www.ehow.com)

- This year, 5 Billion pounds of carpeting will go into landfills!

EcoLon™ Cam Cover
Ford-F150



Cam Covers (Cylinder Head Cover)

******New Engine Cam Covers for 2011******

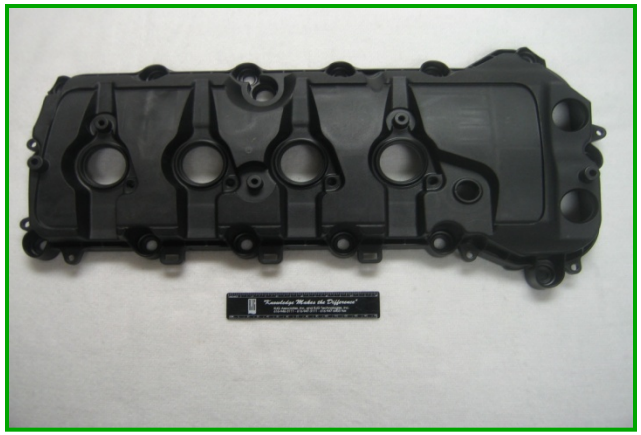
EcoLon™ MRGF1926-BK1: 2011 Ford F150 and Mustang GT (5.0 liter Coyote Cam Cover)

EcoLon™ MRGF1926-BK1

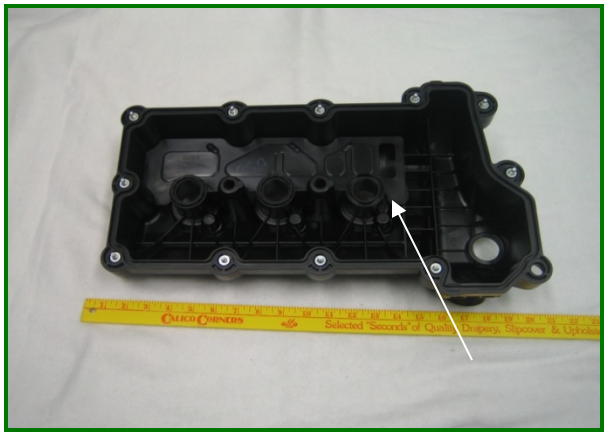
Features a nice balance of high temperature engineering properties for leak proof sealing and good ascetics to please the pickiest stylists.

EcoLon™ 2200-BK1

Features good stiffness, dimensional stability (at low cost) and can be vibration welded to the cover molded from MRGF1926-BK1.



- ***Auto Approved***
- ***100 % PCR based PA66***
- ***Environmentally Green***
- ***High Quality***
- ***Low Cost $$$$***



Vibration welded Baffle Plates

Engine Cooling Fans & Shrouds

EcoLon™ 2100-BK1

PA66 with 38% Mineral + Glass Fiber

Features:

- Excellent strength and stability at high temperature.
- Low warp in shrouds
- Improved weld line strength for high burst strength in banded fans

- ***Auto Approved***
- ***100 % PCR based PA***
- ***Environmentally Green***
- ***High Quality***
- ***Low Cost $$$$***

EcoLon™ MRGF1616-BK

PA6 with 40% Mineral + Glass Fiber

Features:

- Improved flow and appearance
- Good toughness at low temperatures
- Wide processing window

North and South Carolina Carpet Recycling Update

- The following locations are participating in the Carpet Recycling Program.

➢ Pitt County	1,037,497 lbs Recycled
➢ Wayne County	593,044 lbs Recycled
➢ Haywood County	397,364 lbs Recycled
➢ Macon County	259,217 lbs Recycled
➢ Horry County	1,607,947 lbs Recycled
➢ Union County	105,186 lbs Recycled
➢ Pressley Recycling	194,385 lbs Recycled
➢ York County	36,572 lbs Recycled
➢ New Hanover County	99,088 lbs Recycled
➢ 908 Landfill (S.C.)	48,272 lbs Recycled

Carpet Collection Guidelines

- Carpet must be dried, can be new or used.
- Residential Carpet (has high pile fiber)
- Padding
- Can now take Commercial Carpet (tightly looped carpet)
- Carpet needs to be rolled up for easy handling

Carpet Collection Guidelines

- No Carpet Tiles
- No Rubber Back Carpet
- No Carpet With glue on the backing
- No Small Pieces of Carpet
- No Metal, Wood Strips etc.
- No Carpet with Berlap Backing

Trailer
Not Completely Loaded

Residential Carpet

Commercial Carpet

Rolled Carpet

Financial

- Trailer can be located at the collection point. The cost for the trailer rental is $200.00 per month.

- To Avoid the trailer rental, the load can be live loaded. Would require enough dry storage and a Bobcat or Forklift to load the trailer. Wellman will coordinate the transportation.

- Wellman will pay up to $300.00 toward the transportation cost for each load received.

Financial

- The weight for each load should be 30,000 lbs or greater.
- Normally for the financial numbers to work, the distance from Johnsonville SC would need to be 200 miles or less.
- Some Landfills will give a reduced tipping fee if the carpet is recycled.

WELLMAN
Engineering Resins

Thanks For The Opportunity to share Our Carpet Recycling Program

INTERESTED IN SETTING UP A RECYCLING PROGRAM?

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