

New Gen Product Sustainable Design

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Roche Diabetes Care Strip Products

Accu-Chek
Aviva

Launched
in 2005

Accu-Chek
Guide

Launched
in 2016

Accu-Chek
Performa

Launched
in 2008

Accu-Chek
Instant

Launched
in 2017

99.8% of the strip product is Plastic

NEW GEN PRODUCT – SUSTAINABLE DESIGN

Product Design Changes

Aviva

Length 38 mm

- Width 9 mm



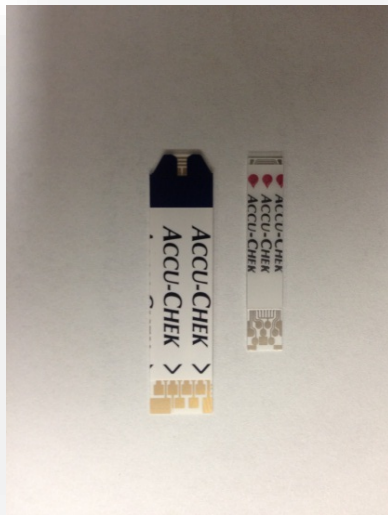
New Gen

Length 28 mm

- Width 5 mm

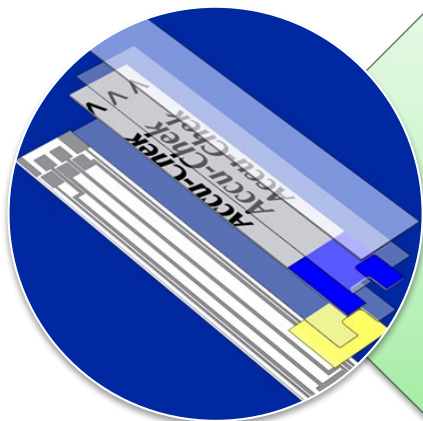


60 % Reduction
in size



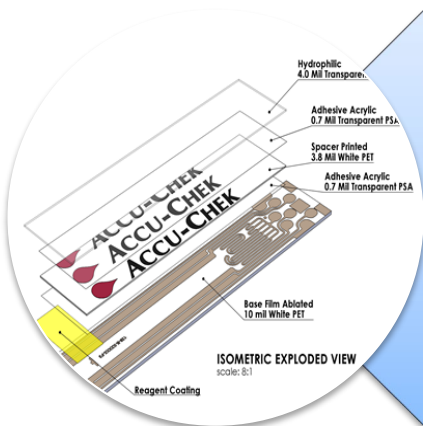
Product Design Changes

1000 Ton reduction in polyester usage per annum



Aviva/Performa

- 10 Components
 - 4 Polyester Liners



New Gen

- 7 Components
 - 2 Liners
 - No cover label

- **Reduced Adhesive thickness from 1 mil to 0.7 mil**
- **Removed two Polyester liners**
- **Removed Polyester cover label**

New Gen Packaging Design

New primary containers are smaller than current vial

Packaging designed for ease of use, sustainability, and distribution optimization

Pack density volume increase to yield savings in transportation and warehousing costs



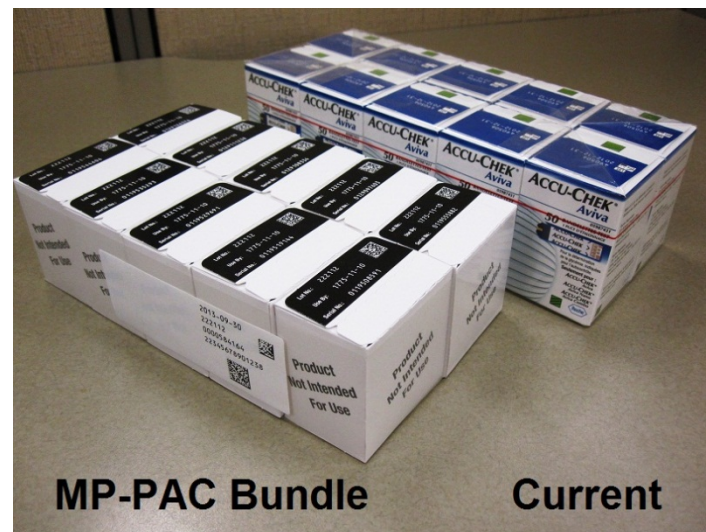
New Gen Packaging Sustainable Design for Distribution



OUS bundle configs use polyethylene **stretch band vs film wrap** with tear tape – **less material** and simpler process

UDI compliant print and apply label

OUS configurations avg **44.9% improved pack density** over current



New Gen Packaging Sustainable Design for Distribution



US case packed configs optimized for distribution, particularly small parcel shipment

UDI compliant print and apply label

Smaller case footprint results in improved overpack efficiency

US configurations avg **35.9%** improved pack density over current



New Gen Packaging

Sustainable Design for Distribution

All New Gen carton configs optimized for “medium” standard box offerings from transport providers

FedEx, UPS, USPS

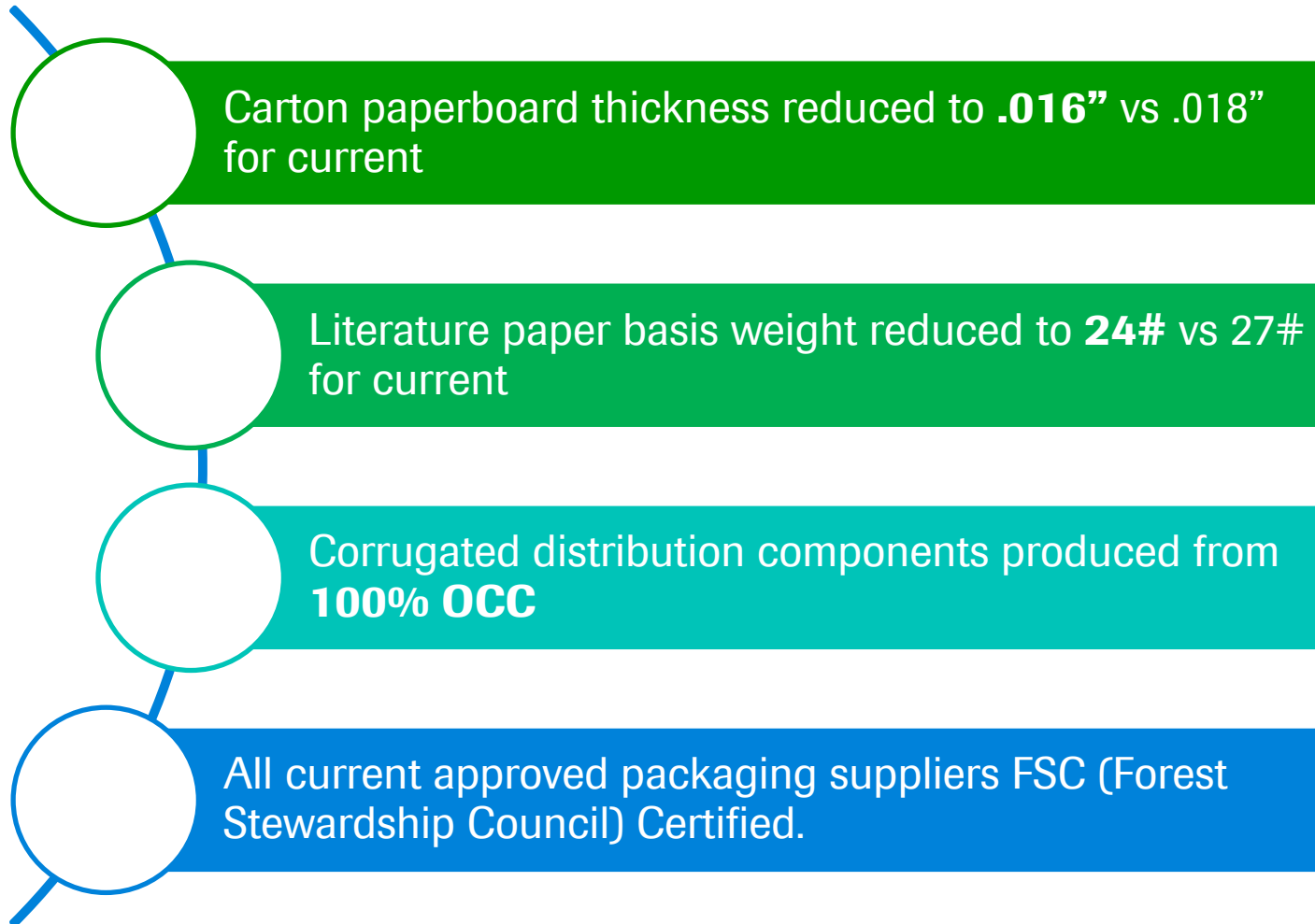


New Gen Packaging Sustainable Design for Distribution



**Pack density Increase
from 16% to 84%
depending upon the
configurations**

Gen III MP and VS Packaging Sustainable Design

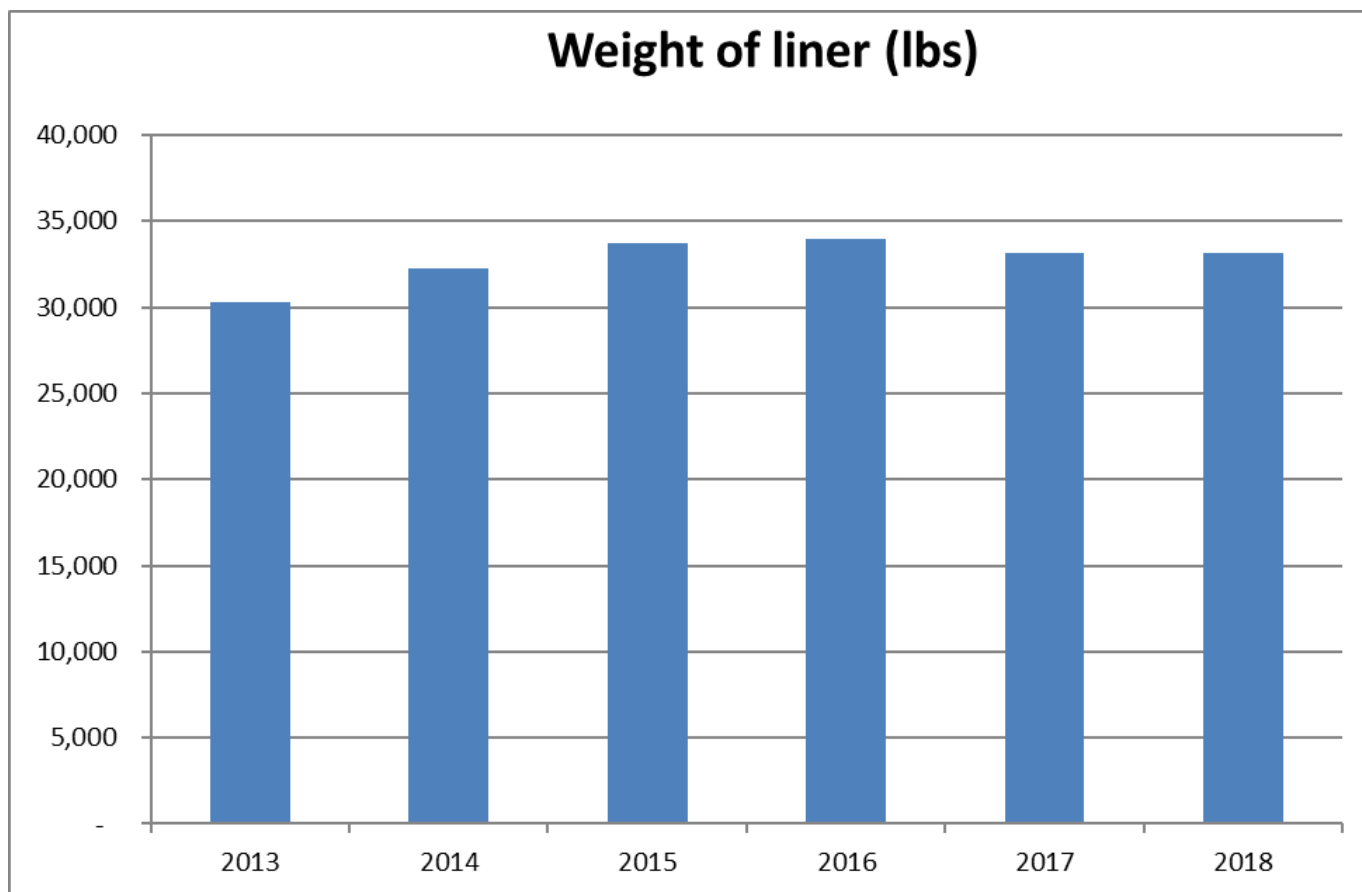


AVIVA / PERFROMA ENHANCEMENTS

Eliminated Plastic liner on Hydrophilic for Aviva/Performa

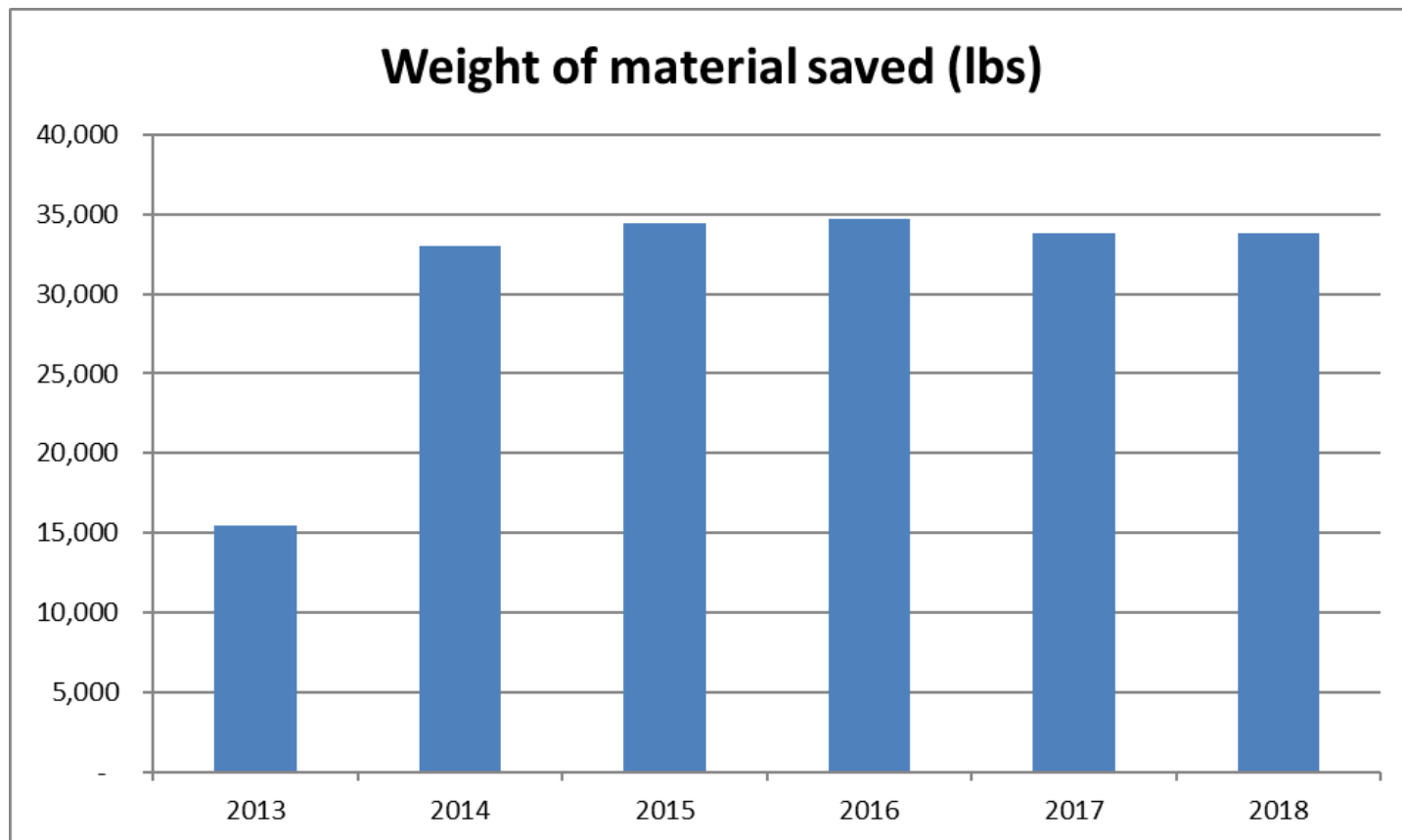


Total pounds of material saved: 196,000 lbs



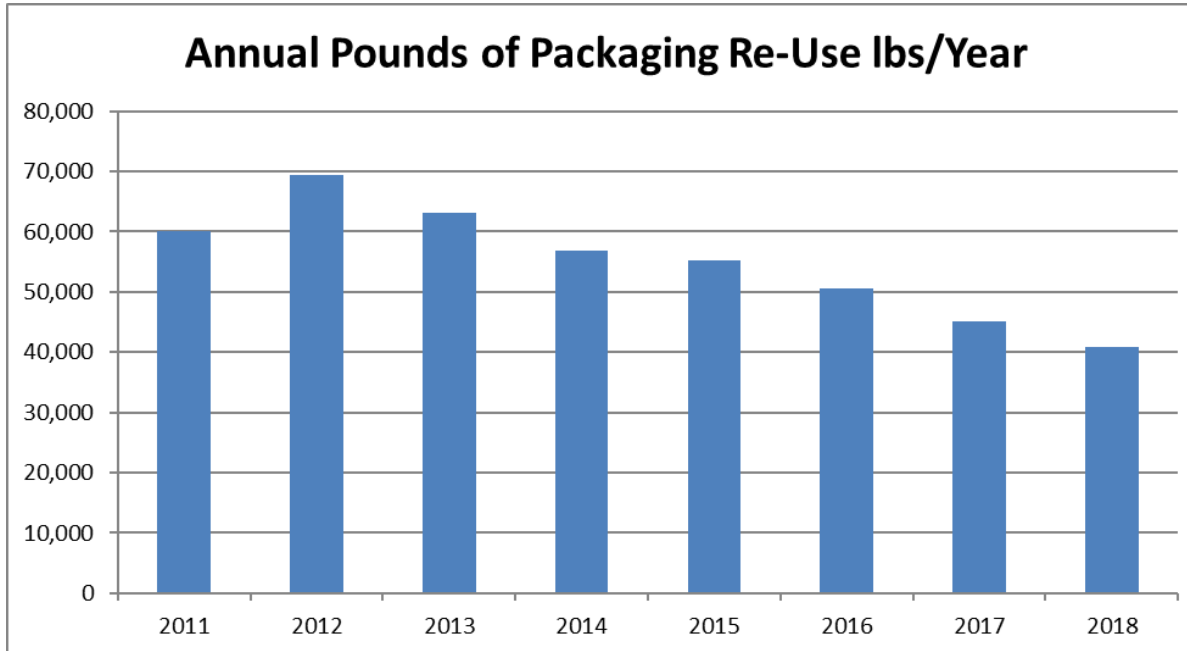
Reduced width of Base Plastic Material for Performa

Total pounds of material saved: 185,000 lbs



Aviva/Performa Incoming Raw Materials Packaging Re-Use Program savings from 2011 - 2018

Total pounds of packaging re-use, 2011-2018: 440,000 lbs*



***NOTE: 2017 and 2018 numbers were estimated**

Doing now what patients need next