New Gen Product Sustainable Design

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Roche Diabetes Care Strip Products

Accu-Chek Aviva
Launched in 2005

Accu-Chek Performa
Launched in 2008

Accu-Chek Guide
Launched in 2016

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

- Carton paperboard thickness reduced to .016” vs .018” for current
- Literature paper basis weight reduced to 24# vs 27# for current
- Corrugated distribution components produced from 100% OCC
- All current approved packaging suppliers FSC (Forest Stewardship Council) Certified.
AVIVA / PERFROMA ENHANCEMENTS
Eliminated Plastic liner on Hydrophilic for Aviva/Performa

Total pounds of material saved: 196,000 lbs

Weight of liner (lbs)

- 2013
- 2014
- 2015
- 2016
- 2017
- 2018
Reduced width of Base Plastic Material for Performa

Total pounds of material saved: 185,000 lbs

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<th>Year</th>
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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