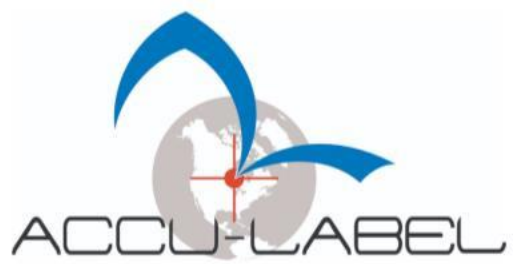


Sustainable Labelling Technology



ACCU-LABEL

www.accu-label.com



Shubh Singh

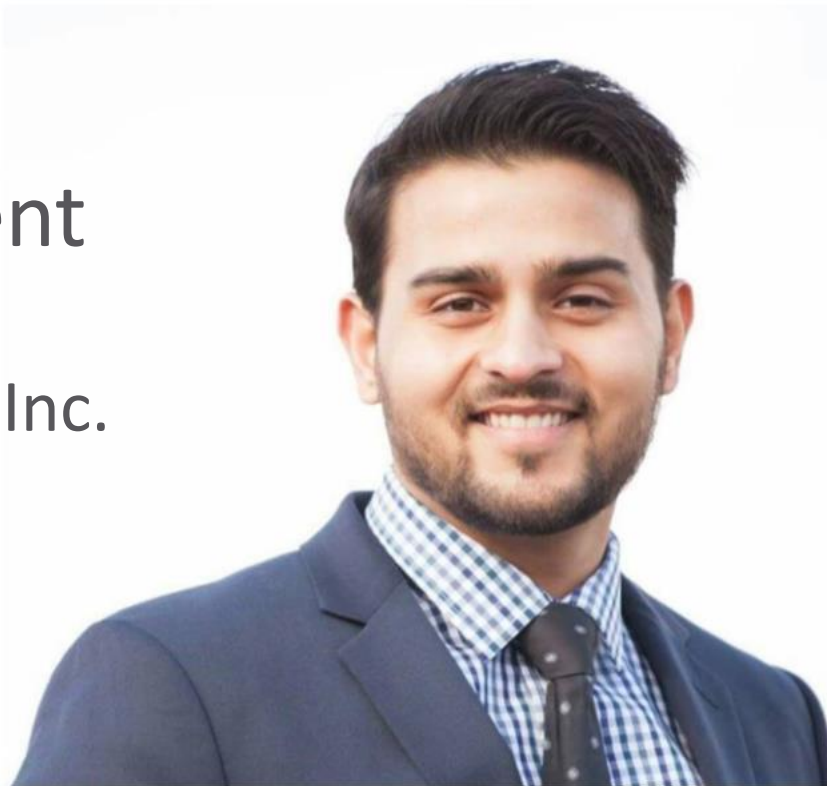
Business Development

Accu-Label Inc.

Ag-Tronic Control Systems Inc.

(951) 255-3551

shubhs@accu-label.com



Accu-Label & Ag-Tronic Control Systems

Accu-Label is recognized as the World Leader in Eco-Friendly Fruit Labelling Technology

1991

2001

2008

2021



Engineering, Design & Development

Automations Solutions, Sizers, Graders, Height Control Systems, Machine Vision

Sales, Service, Distribution

Labelling Equipment and Labels

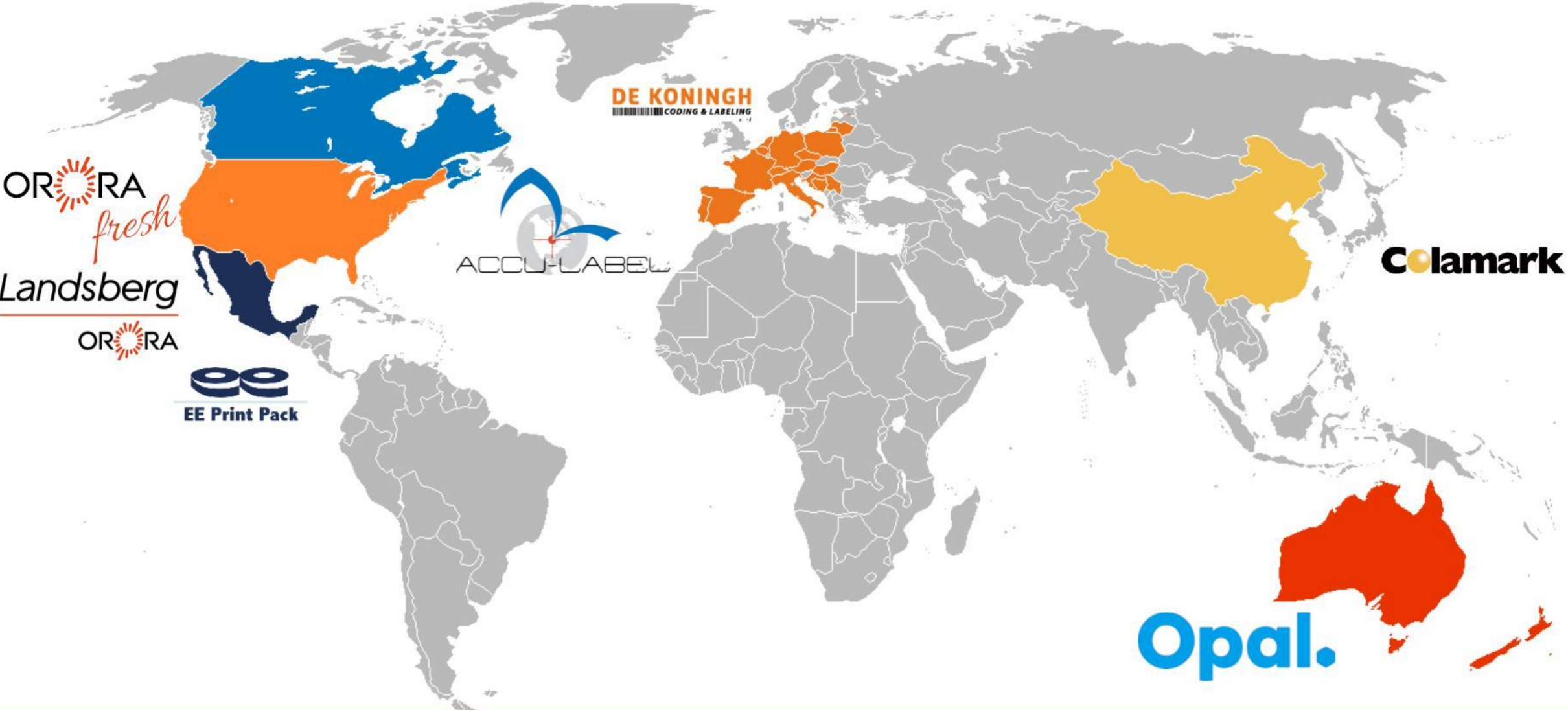
High Speed Labelling System

Real-time Print & Apply™
ACS Print Verification
Technology

Global Network of Partners

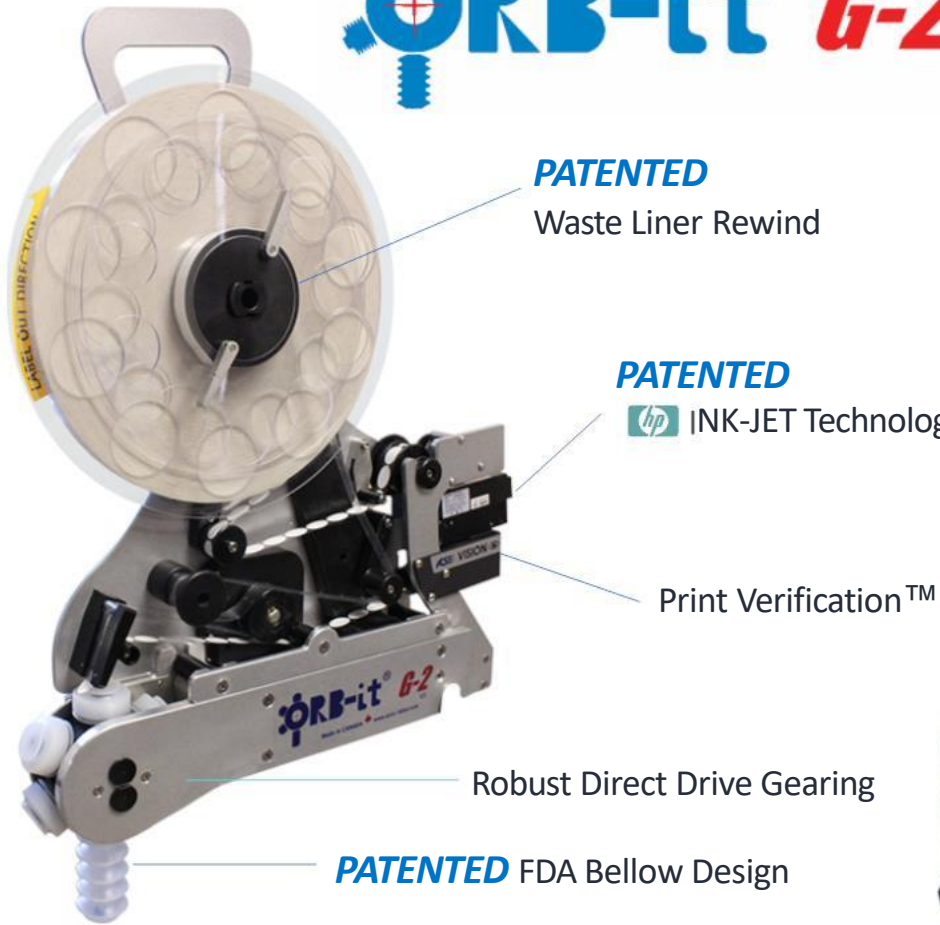
Operations in North America, Europe, Asia and Australia



World Leader In Eco-Friendly Fruit Labelling Technology



Strategic Partners in Key Global Markets

What is our solution and why choose us?



- Ø **ORB-it® G-2** Waste Liner Rewind eliminates the noisy liner extraction units, and reduces breakdown and service requirements.
- Ø Reliable  **INK-JET** Technology.
- Ø Official  Specialty Printing Systems (SPS) Developer.
- Ø **ORB-it® G-2** Print & Apply proven 100% successful since 2008.
- Ø Print variable information on labels as they are dispensed at over 15 labels per second.
- Ø **ACS Print Verification** will inspect and verify each label prior to dispensing.
- Ø **ORB-it® G-2** Tamping Bellows have patented dimples on the face specifically designed for applying labels to wet fruit at over 98% stick rate.

Item-Level Traceability Info
(EX: Pack Date, Lot Code, Grower ID)

PTI Mandated Traceability Info
(GTIN, Country of Origin, PLU)



Lowest Cost of Ownership, Superior Performance & Reliability

What is our solution and why choose us?

ORB-it® G-2 Over-Top™

With patented tamping bellows achieves the highest percentage of PLU labels retained on wet and fuzzy skinned products. FDA – compliant soft silicone construction results in virtually no bruising or damage to soft products. Labelling speed of up to 900 cpm and application of over 99%.

[Watch Video](#)



Lowest Cost of Ownership, Superior Performance & Reliability

What is our solution and why choose us?

FLEX-TL™

The FLEX-TL™ allows for custom configuration of labellers along a conveyor line which reduces capital investment with no sacrifice to labelling efficiency & throughput. Many configurations and options available to satisfy a multitude of labelling requirements. Also available: ECO-TL X-Y™ for low-throughput pattern tray labelling.

[Watch Video](#)



Lowest Cost of Ownership, Superior Performance & Reliability

What is our solution and why choose us?



ORB-it® G-2 Vision Labeller™

Since 2001, ORB-it® Vision Labeller™ with TARG-it Vision™ is the most successful tray labelling system for tray packed fresh produce, and provides the highest percentage of PLU labels on the fruit or vegetable body to greatly increase retail profits.

[Watch Video](#)



Lowest Cost of Ownership, Superior Performance & Reliability

What is our solution and why choose us?

ORB-it® G- 2 Labelling Station

Uses soft FDA Buna-N rollers to convey and label bulk-packed produce. This portable unit is available in standard 2 or 4 lanes, and custom up to 12 lanes.

[Watch Video](#)



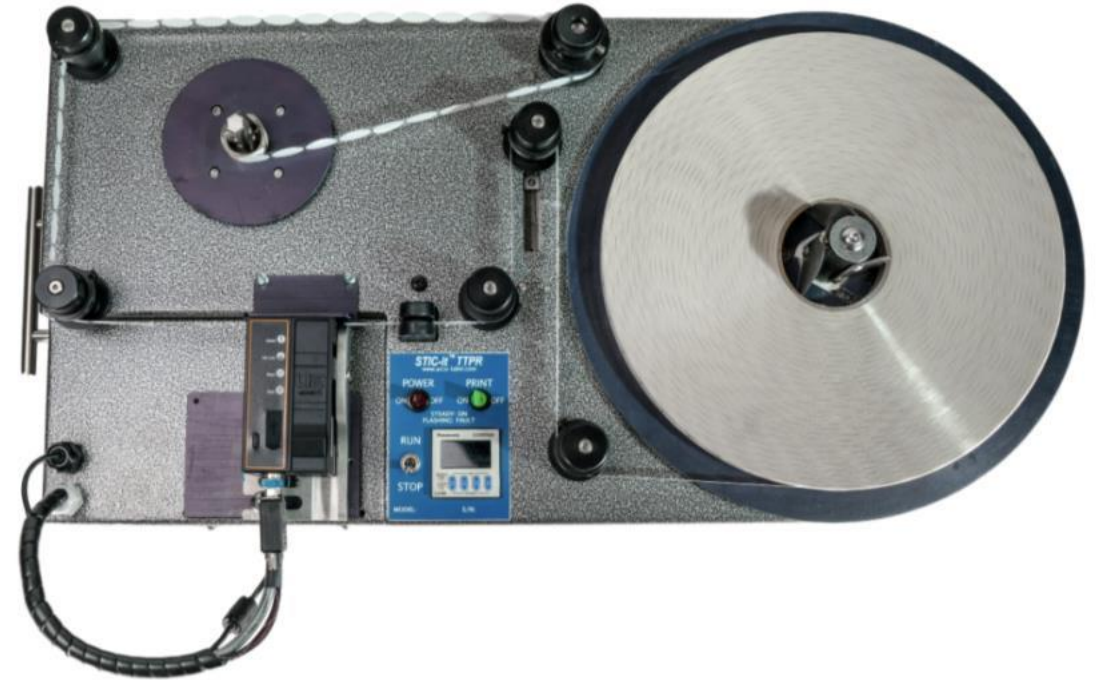
Lowest Cost of Ownership, Superior Performance & Reliability

What is our solution and why choose us?

STIC-it™ TTPR

For STIC-it customers seeking the versatility of Print & Apply™ in a low-volume application.

[Watch Video](#)



Lowest Cost of Ownership, Superior Performance & Reliability

What is our solution and why choose us?

STIC-it™ Hand Labeller

A portable hand labeller incorporating a rechargeable and removeable battery pack (lasting up to 10 hours) inside a comfortable, molded, ambidextrous handle, which includes a Waste Liner Rewind.

[Watch Video](#)



Lowest Cost of Ownership, Superior Performance & Reliability

Why do we choose PAPER for our labels?



Forestry
Stewardship
Council



**FORESTS
FOR ALL
FOREVER**

Made with renewable resources,
responsibly managed forests



This Photo by Unknown Author is licensed under CC BY-NC

Paper or plastic?



Paper label degrades in 6 weeks
going unnoticed in compost

Accu-Label has been successfully providing PAPER PLU Labels since 2001!

Third-Party Lab Test Results : **Plastic Labels**

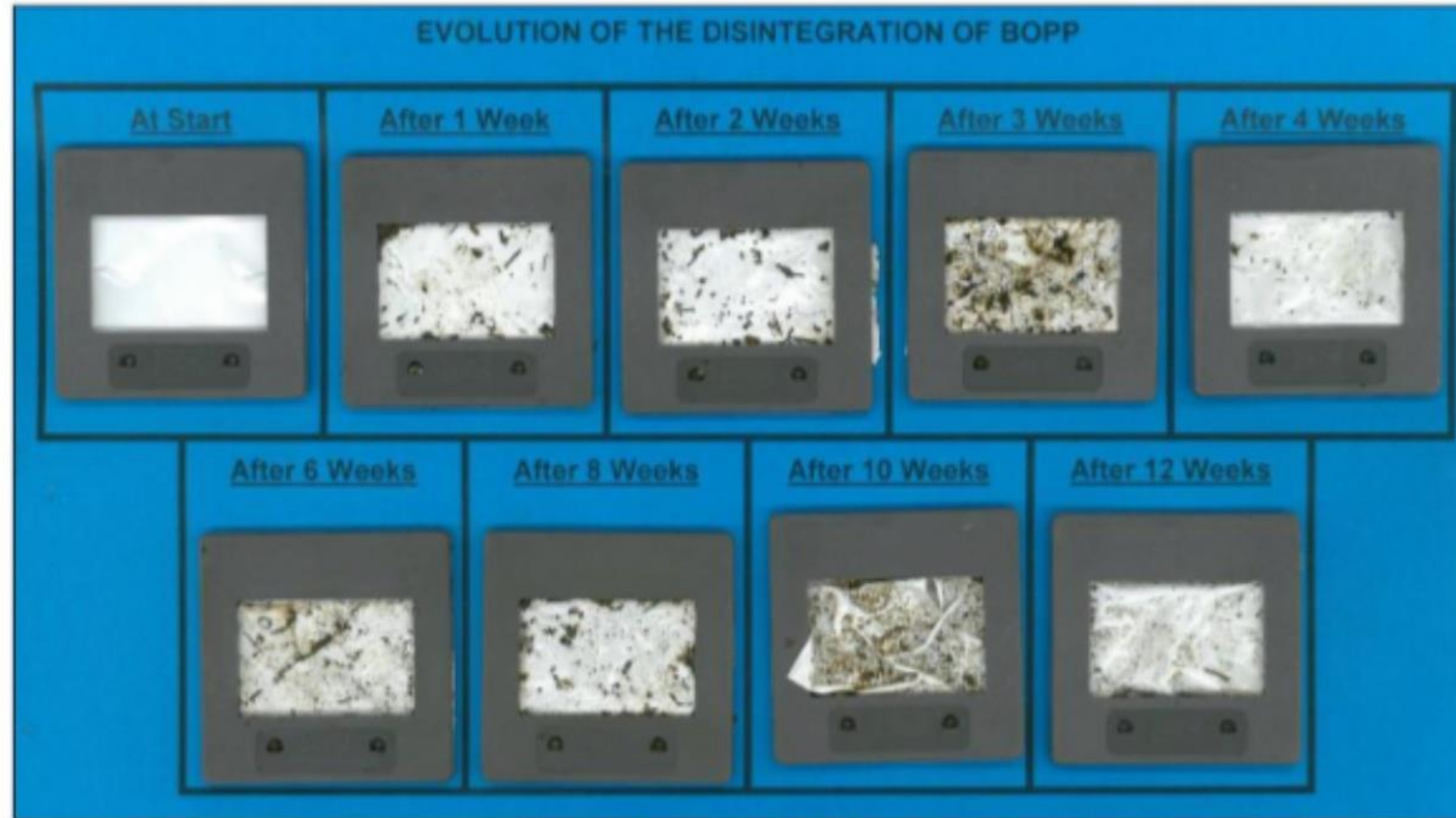


Figure 5. Visual presentation of the evolution of the disintegration of BOPP (± 0.1 mm) in slide frames during the composting process

Third-Party Lab Test Results : **PAPER** Labels

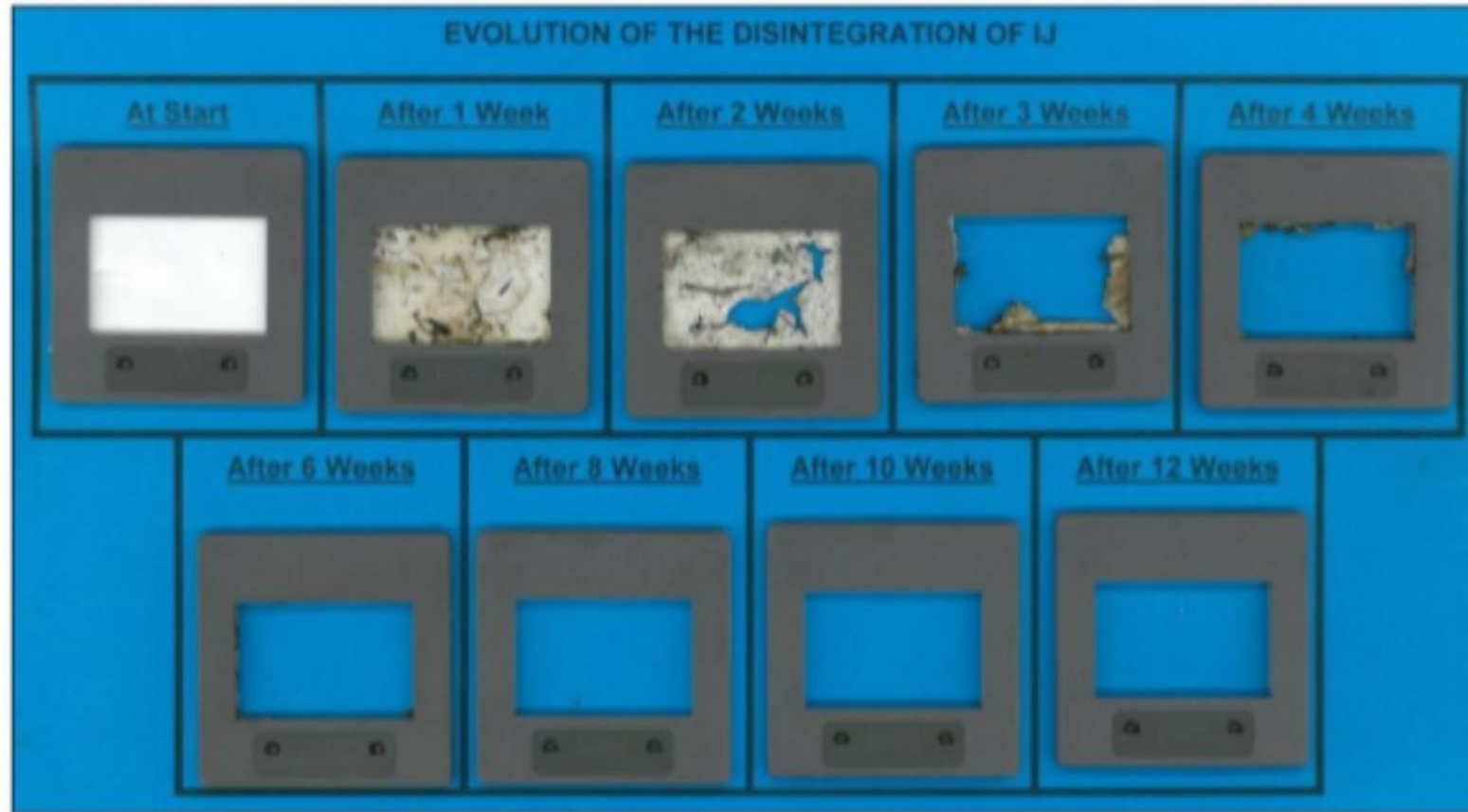


Figure 4. Visual presentation of the evolution of the disintegration of IJ (± 0.1 mm) in slide frames during the composting process

Thank You!

Shubh Singh

shubhs@accu-label.com



ACCU-LABEL

www.accu-label.com

Sustainable Packaging Solutions

A  Showcase Webinar



Some of our Partners

We're working with everyone from leading organizations to small farmers in order to improve product quality, shelf life and distribution range. Longer lasting produce means less food waste and a more efficient use of our earth.



RELEVANCY

Younger Generations Leading Momentum for Sustainable Packaging

70% OF CONSUMERS
are influenced by whether
the package is recyclable or
contains recycled content

83% OF CONSUMERS
44 and under will pay more!

Sixty-seven percent of consumers identified as being “environmentally aware” related to their packaging choices. Additionally, 67% of those surveyed identified packaging that is recyclable as important, and 64% identified packaging that contains recycled content as a priority in their buying decisions.

Eighty-three percent of those 44 and under were willing to pay more for sustainable packaging. The study also showed that younger consumers were 23% more inclined to pay for sustainable packaging than older generations, with no significant difference in income bracket or between Millennials and Generation Zers.

[Source](#) Flexible Packaging Magazine, May 5, 2021

SPEED & SERVICE



- Belmark's no minimum order quantities minimizes risk of obsolescence and disposal of unused packaging while freeing up cash rather than having it locked up in packaging inventory.
- Ability to respond rapidly to shifting demand or harvest schedule with three week or less packaging lead times.

QUALITY

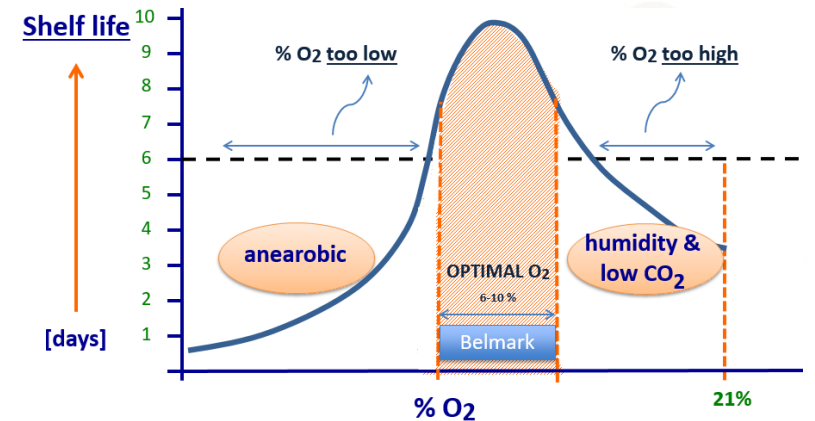
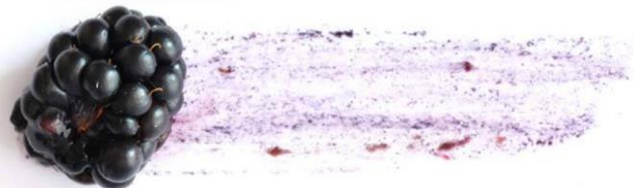
How much

Belmark Fresh Technology

is exclusive in North America
with our technology partner Perfo Tec.

Our analytical capabilities will test your specific product for determining optimal respiration and our closed loop, in-process control provides the quality assurance of a consistent and accurate package.

Global food waste every year. ¹⁵



PACKAGING INNOVATION

WASH AWAY LABELS ON PET CLAMSHELLS

Recyclers are challenged with pressure sensitive labels compromising the purity of the recycle stream due to the adhesive contamination.

Belmark has developed an **APR approved** label solution that will cleanly release from the container during the sink/float process at the recycler.



PACKAGING INNOVATION

MINDFUL SOLUTIONS™



Recyclable flexible packaging displaying the How2Recycle® label



Belmark has created tru-IMPACT® eco-friendly flexible packaging. With tru-IMPACT®, you can offer your products in sustainable flexible packaging that's made with a minimum of 20% post-consumer waste recycled content.

PACKAGING INNOVATION

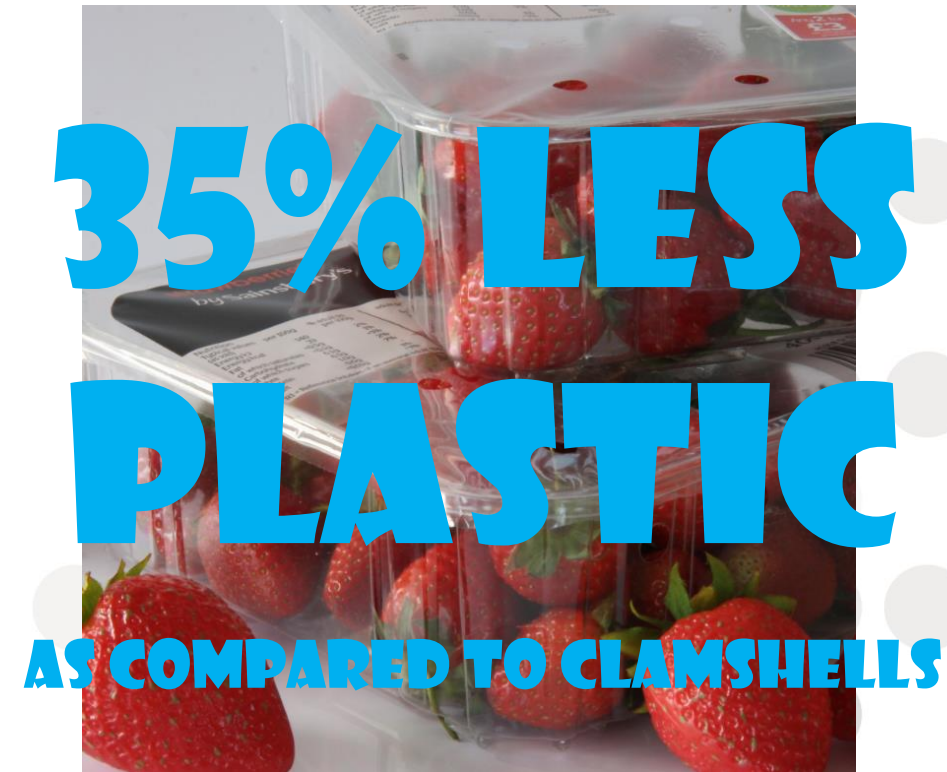


ENVIRONMENTAL IMPACT

- Annually prevent the use of 180,000 pounds of plastic
Equivalent to 8,500,000 water bottles each year
- Annually save 6.2 billion BTUs of energy
Enough to power 40 US homes each year
- Annually prevent 460,000 pounds of Green House Gas Emissions from entering our atmosphere
Equivalent to taking 45 cars of the road each year

**EAU of 8mm Packages*

Rigid Clamshell



SEALutions™

PACKAGING INNOVATION



sealutions™	TYPE	RESEAL	EASY OPEN	HERMETIC SEALS	ENGINEERED BARRIER	TAMPER PROOF	ANTIFOG	SEALS TO
<u>top</u> seal re <u>seal</u>		PREMIUM RESEALABLE LID	✓	✓	✓	✓	✓	
<u>simple</u> re <u>seal</u>		RESEALABLE EASY PEEL LID	✓	✓	✓			
<u>simple</u> seal		PREMIUM ONE TIME EASY PEEL LID	✓	✓	✓	✓		
<u>ready</u> seal		ONE TIME EASY PEEL LID	✓	✓	✓	✓	✓	
<u>lock</u> seal		LOCK UP WELD SEAL		✓	✓	✓	✓	

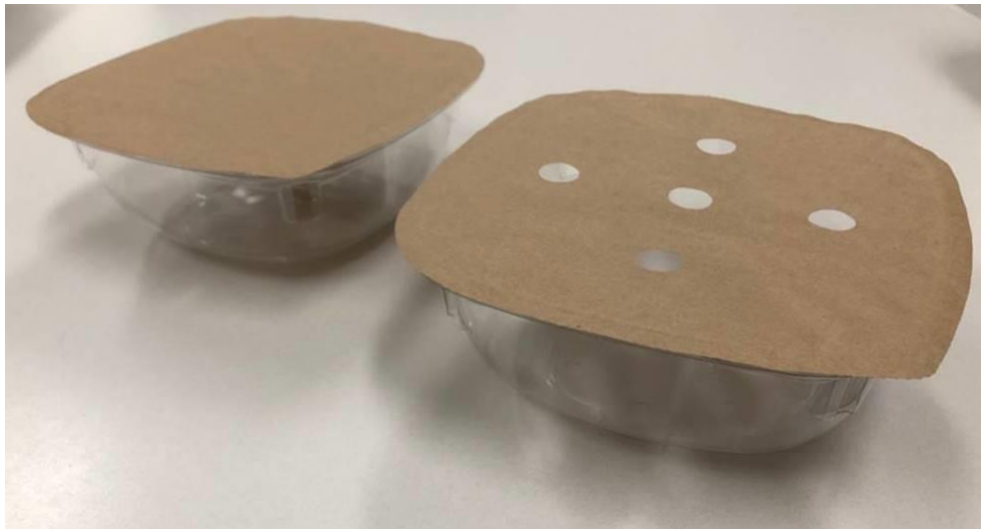
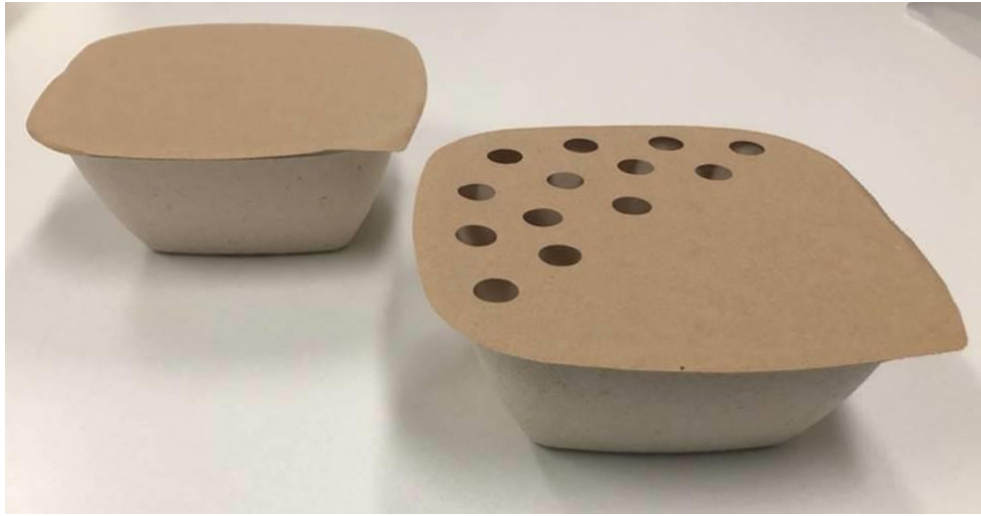
PACKAGING INNOVATION

Sealutions™ by Belmark

Convenience. Freshness.
Sustainability. Visual Appeal.



LOOKING FORWARD



fiberseal

LOOKING FORWARD...



COMPOSTABLE C+ FRESH

Plant based **transparent** film with **ideal** HMVTR and **CO₂TR** for fresh produce. The result is **extended freshness** and **shelf life**, when combined with laser perforation.

Features & benefits

<ul style="list-style-type: none">• Maximizes the shelf life of Fresh Produce	<ul style="list-style-type: none">• Suitable for flowpacking
<ul style="list-style-type: none">• Balanced O₂ and CO₂ transmission level	<ul style="list-style-type: none">• Printable
<ul style="list-style-type: none">• High Water Vapour Transmission Rate (WVTR)	<ul style="list-style-type: none">• Plasticizer free
<ul style="list-style-type: none">• Produce weight loss is virtually zero	<ul style="list-style-type: none">• GMO free
<ul style="list-style-type: none">• Certified Home Compostable material, by TÜV AUSTRIA	<ul style="list-style-type: none">• Food Contact compliance approved



Belmark C+ FRESH

- Available for Retail and Food Service
- Excellent for high value produce types
- Available in Medium and High MVTR
- Available with Belmark Fresh Technology for additional shelf life extension
- Good for Home and Industrial Compost

www.Belmark.com

CONTACT INFO

Jason Vande Loo

*Director Business Development
Strategic Markets & Products*

jasonv@belmark.com

cell 920.412.6018





ABOUT US

- Founded in 1966 by Bob and Pat Ludlow in Worthington, MN
- Family owned; over 400 employees
- Operate 24 hours per day
- All manufacturing in USA



B BEDFORD[®]



BEDFORD



Produce Tie



BEDFORD

BibTies®

BEDFORD



ElastiTag®

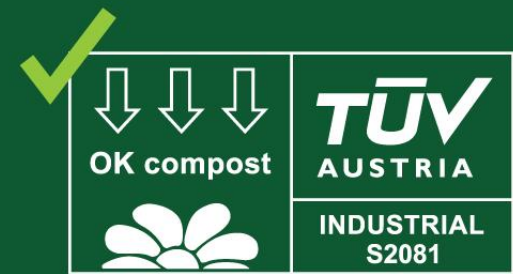


BEDFORD

CloseIt®

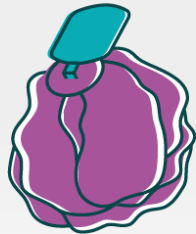


Manufactured with **100%** USDA certified biobased content.



PLASTIC REDUCTION

PushTag[®]



76%

Plastic reduction when compared to cabbage overwrap*

ElastiTag[®]



68%

Plastic reduction compared to vegetables wrapped in plastic*

ElastiTag[®]

band



70%

Plastic reduction compared to banana bags*



Clean. Renewable. Reliable.

Now manufactured by 100%
net-zero carbon power supply



BEDFORD



TagBack[®]
BY BEDFORD

Recycling Initiative

THANK YOU



Belinda Heidebrink
belindah@bedford.com

bedford.com | elastitag.com | closeit.com | tagback.com





SUSTAINABLE PACKAGING SOLUTIONS



SEV-REND® | HIGH-PERFORMANCE
PACKAGING



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a webinar by *pma*

May 11, 2021

- Founded in 1993 with a focus on manufacturing tags & labels for various commodity types in the produce industry.
- Expanded product portfolio over the past 27+ years to include items such as knitted tubular netting (Sof-Net®), flexible packaging, & stand-up-pouches to support the produce industry.
- We service various commodity markets such as onions, potatoes, citrus, apples, avocados, cherries, and more.



at a glance



SEV-REND® | HIGH-PERFORMANCE
PACKAGING



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SUSTAINABLE
PACKAGING
SOLUTIONS

- Centrally located outside St. Louis, MO in Collinsville, IL.
- Strategically located service centers to efficiently service all of North America.



at a glance



SEV-REND® | HIGH-PERFORMANCE
PACKAGING



CONFIDENTIAL ©2021 SEV-REND



SUSTAINABLE
PACKAGING
SOLUTIONS

retailers



...and many more!

sustainable



our partners



SEV-REND® | HIGH-PERFORMANCE PACKAGING



SUSTAINABLE PACKAGING SOLUTIONS

- There is a defined need for plastic packaging due to its unique qualities such as durability and barrier qualities for items such as food preservation.
- The most scalable solution for single use plastics is the **Recyclable Option**. This solution is readily available for a good portion of the population with a current infrastructure in place to manage the demand.
- As a packaging manufacturer: we are on the front lines to help discover true sustainable solutions and implement these changes.
- This still leaves a variable that is impossible for any packaging manufacturer to manage: **the end of life of the waste & how the consumer handles it.**

the challenges



SEV-REND® | HIGH-PERFORMANCE
PACKAGING



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SUSTAINABLE
PACKAGING
SOLUTIONS

bio-ABLE™ SOLUTIONS

the solution

Plastic packaging
in a responsible
format.



BIO-ASSIMILATION

- **THE FINAL STAGE OF BIODEGRADATION**

Definitively, "bio-assimilation" means that the plastic has degraded to a molecular weight that can be consumed by living organisms.

- **NO TRACE LEFT BEHIND**

This represents the final and conclusive stage of plastic biodegradation, leaving behind no micro plastics, in both marine and terrestrial environments.

Plastic packaging
in a responsible
format.



THE PROCESS

200,000 Da

40,000 Da

5,000 Da

0 Da

END OF FUNCTIONAL SHELF LIFE

The functional stabilizer is used up, initiating the bio-assimilation process.

MEASURE OF MASS

The dalton (Da) is a unit of molecular mass used in physics and chemistry.



THE PROCESS

200,000 Da

40,000 Da

5,000 Da

0 Da



FULLY INTACT MATERIAL

Material is at the end of its programmed useful life performance prior to 100% natural bio-assimilation.



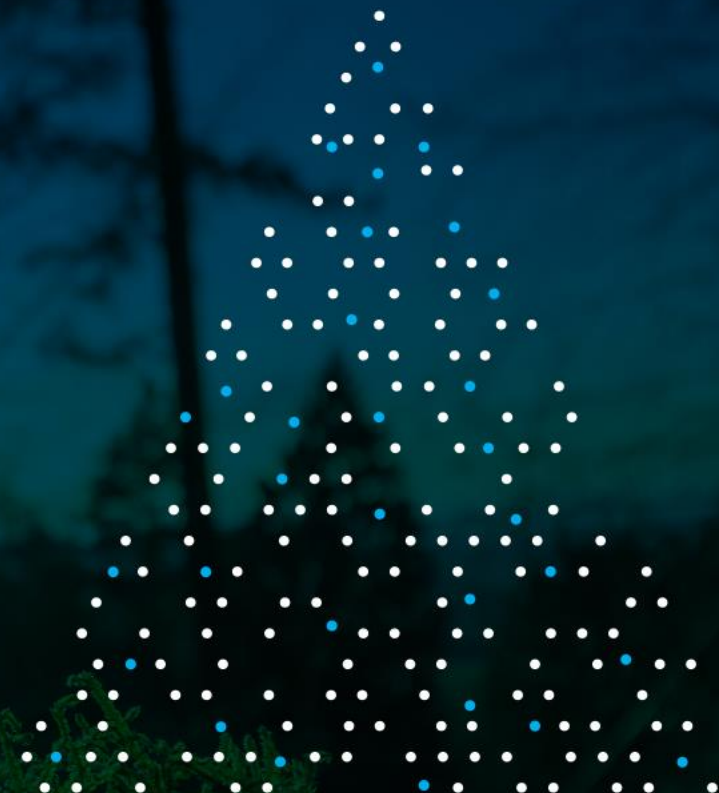
THE PROCESS

200,000 Da

40,000 Da

5,000 Da

0 Da



MATERIAL TRANSFORMATION

Hydrophobic material becomes hydrophilic.



THE PROCESS

200,000 Da

40,000 Da

5,000 Da

0 Da



NO MICROPLASTICS

Carbon-to-carbon bonds are exposed to microorganisms.



THE PROCESS

200,000 Da

40,000 Da

5,000 Da

0 Da

COMPLETE BIO-ASSIMILATION

Nothing left but CO₂, water and biomass.



FROM A PACKAGING PARTNER
THAT CARES ABOUT YOUR PRODUCT
AS MUCH AS WE DO OURS

THANK YOU!

Jeff Watkin
director of marketing

p 618.713.5310

e jwatkin@sev-rend.com



SEV-REND® | HIGH-PERFORMANCE
PACKAGING



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a webinar by *pma*

May 11, 2021



Sustainable Solutions by Volm

A myriad of materials and package options from a single source.

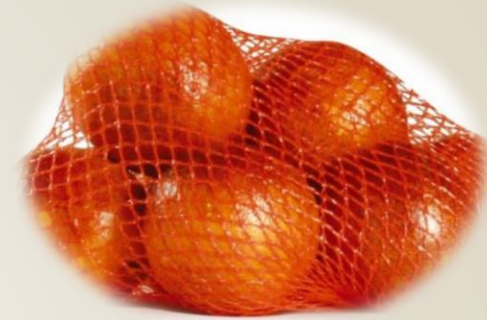
Who We Are



- Established in 1954
- Wisconsin Roots - North American Reach
- Vertically Integrated Trusted Supplier
- Total Solutions Provider for Fresh Produce Packing Facilities
- Member - Sustainable Packaging Coalition
 - Approved printer for How2Recycle label

Volm's Sustainable Product Offering

Netting



CLAF® Bio Fabric™ Mesh



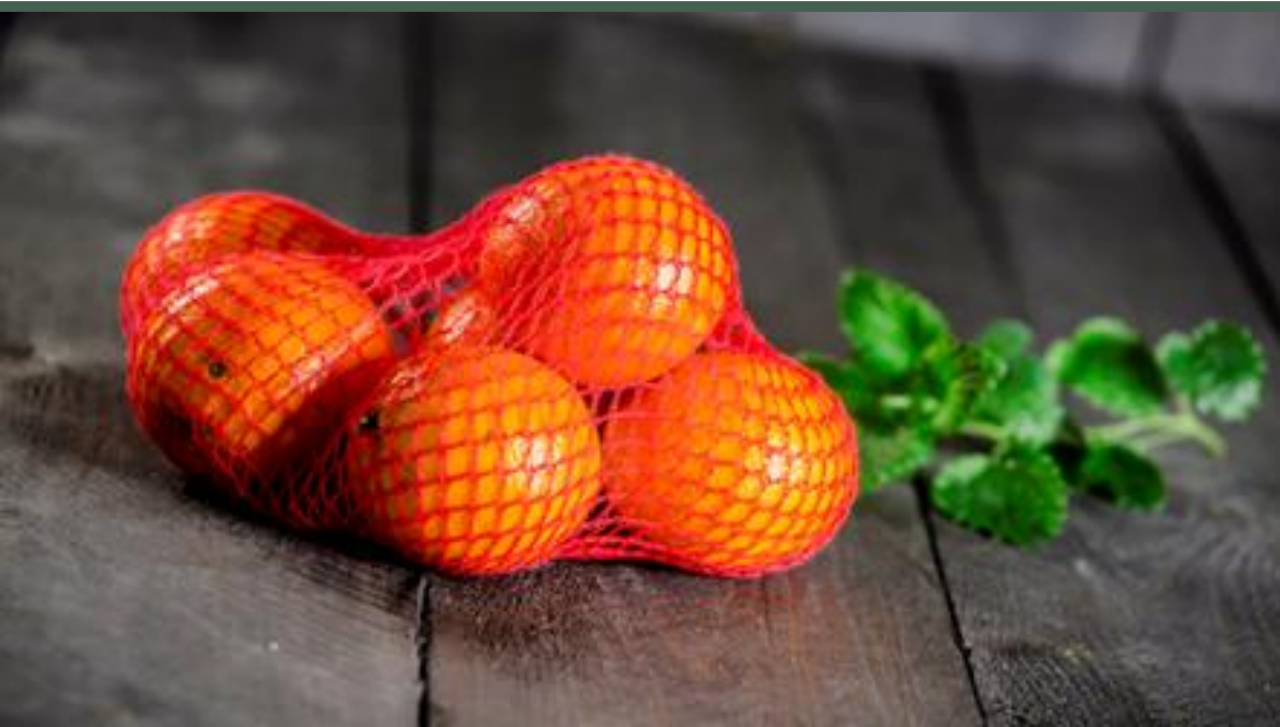
Bag2Paper™ & Paper VFFS



Paper & Fiber Trays



FPO



Knitted Netting and Extruded Netting

Compostable Netting Options:

- Made from renewable resources including Vegetable Fibers and PLA Materials
- Soft on produce
- Lightweight material
- Allows breathability
- Available in many common colors
- Can be complemented with fully compostable wineglass labels

Commonly Used For:

- Citrus Fruits
- Onions
- Garlic
- Potatoes
- Avocado

CLAF® Bio Fabric™ Mesh

- Contains 96% Certified Biobased content
- From renewable resources vs. petroleum
- USDA Certified Label
- Same benefits as traditional CLAF
- Can be combined with the current polyethylene recycling stream
- Pillow Pack, All Mesh, Half-N-Half

Best Suited For:

- Potatoes
- Onions
- Garlic
- Citrus





Paper Packaging

Bag2Paper™

- Paper - No Plastic!
- Pillow Pack Style Bags
- Vented for product visibility and breathability
- Certified Compostable and Recyclable by WMU

Paper VFFS w/Window

- Pillow Pack and Gusseted Style Bags
- Cellulose window for product visibility
- Certified Recyclable

*Currently in the works - Paper VFFS w/ Paper Mesh Window(s)

Our Paper Offering is Best Suited For:

- Potatoes
- Onions
- Garlic
- Nuts
- Bulbs



Paper and Fiber Trays & Sleeves

Paper or Fiber Trays & Sleeves

- Recyclable and/or Compostable
- An alternative to plastic clamshell packaging
- Made from renewable resources, reducing usage of fossil fuels



Biodegradable Additive

Bio-Assimilation Additive

- Causes plastic to bio-assimilate naturally (total biodegradation)
- Recyclable and FDA approved
- Not backed by the SPC
- Claim not applicable in CA, WA or Maryland

For information:

- ▶ Mike Levis - Regional Sales Management & Retail Solutions Specialist

mike.levis@volmcompanies.com



- ▶ Alyssa Muraski - Flexible Packaging Product Manager & Mesh Applications Specialist

alyssa.muraski@volmcompanies.com

