

A large, stylized graphic of two overlapping green leaves. The leaves are curved and pointed at the tips, with a white outline that follows their shape. The background is a dark grey gradient.

# **EMERALD PACKAGING**

**A Leader in Sustainability**



**Kevin Kelly**  
CEO, EMERALD PACKAGING

# Making Sustainability a Priority

**Sustainability has almost become an empty word in the plastics industry.** Solutions to landfill and marine debris frequently fall short and claims around compostability often don't square with the reality of products.

**At Emerald Packaging, we take sustainability seriously.** We lobby legislators to implement a better recycling infrastructure. We weave post-consumer resin into our products. We repurpose our scrap. Nearly 100% of our waste is recycled. We've slashed water and energy use. In recognition of our efforts, California certified us as a Green Business, one of only a handful of manufacturers to earn the honor.

**The sustainable plastic packaging landscape is changing quickly.** Let us help guide you in your transition to more sustainable packaging by reducing the plastic you use, and when appropriate, moving to recyclable, compostable or renewable products.

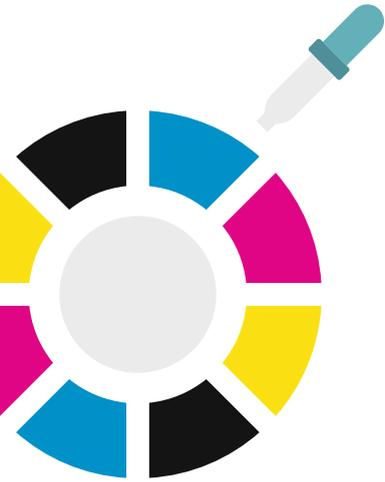
**Let's work together to build a sustainable future.**

# Sustainability: Not Just a Word

Emerald Packaging is committed to building a healthy planet today and in the future. That's why we've implemented sustainable practices throughout our organization - and why the State of California certified us as a Green Business. This certification assures that our facilities and operations comply with rigorous environmental regulations in the areas of waste, energy, water, pollution prevention and air quality.



# Emerald Means Green



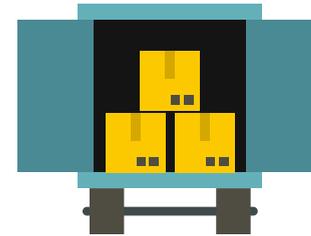
## Manufacturing Technology

- **Color matching technology** is used to cut ink waste
- **Defect detection systems** on our printing presses and extruders reduce print errors and film waste
- **Automation** in various departments prevents over mixing of chemicals and solvents
- **Air compressor units** have built-in variable speed drives that match use to need
- **Our digital printing** affiliate eliminates the need for printing plates and enables short runs to match demand



## Conservation

- **Drip irrigation** and drought resistant landscaping conserve water
- **Highly efficient lighting** with motion sensors for factory and offices reduces energy use

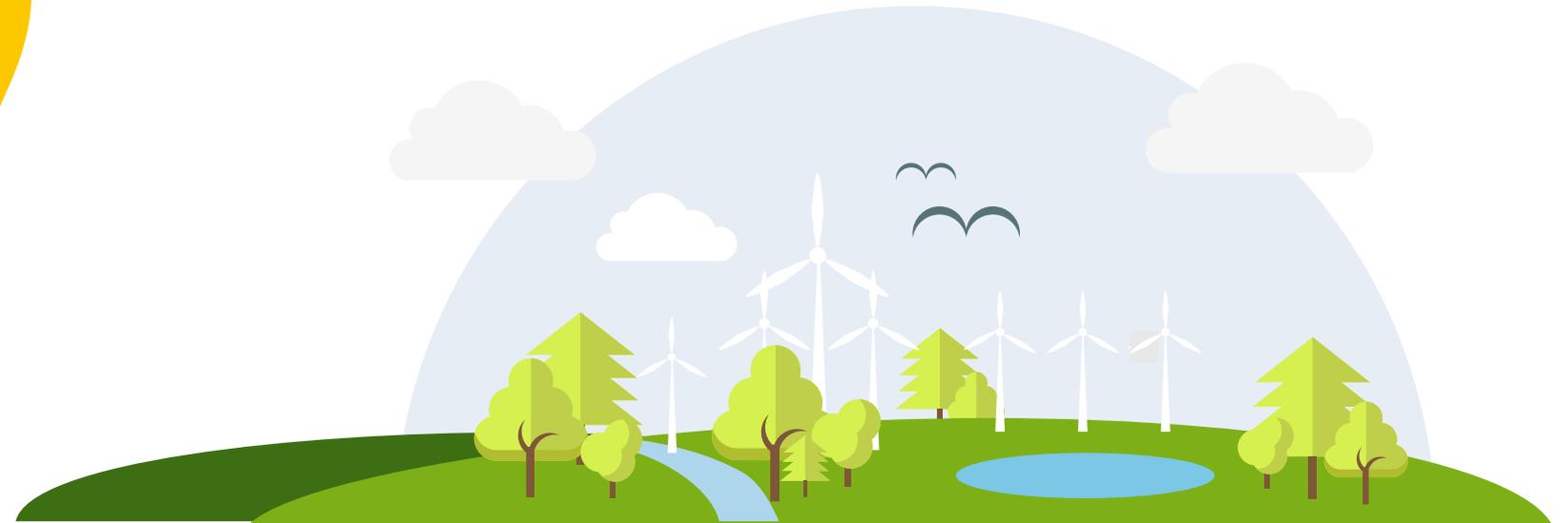


## Distribution

- **Strategic use of back haul** and block-chain trucking technology improves efficiency
- **Right sizing** of pallets and boxes maximizes loads and reduces overall carbon footprint
- **Consolidation of regional shipments** ensures maximum loads

## Zero Waste Philosophy

- **Recycle, reuse or reclaim** 99% of ink, corrugated, plastic scrap and pallets
- **Reusable plastic** cores and pallets eliminate wood/paper products
- **Extensive ink work-off** initiative slashes ink waste
- **In-house solvent recycling system** captures and recycles 100% of cleaning solvents



# Our Packaging Portfolio

As pioneers in sustainable packaging, Emerald Packaging offers the latest bio-based and hybrid films while ensuring compostable films meet the ASTM D6400 standard. If bio-polymers won't work, we help our customers design recycle-ready packages. Our industry has recognized our commitment to sustainable packaging with multiple Flexible Packaging Association (FPA) awards since 2015.



## Standard

- Using standard/conventional hydrocarbon-based packaging materials
- Manufactured in our facility using sustainable practices and advanced technology
- Focus on right sizing packaging, down gauging films
- Application formats: Rollstock, Bags, SUPs



## Renewable

- Use of resin from a renewable, bio-based source such as corn starch, potato starch, sugar cane and/or other cellulose-based bio-films
- Application formats: Rollstock, SUPs



## Recyclable

- 100% recyclable, surface and reverse printed polyethylene SUPs
- Substitutes for PET/PE laminated structures
- Post-Consumer Recycled (PCR) content films
- Application formats: Rollstock, SUPs



## Compostable

- Using certified compostable films and materials (including adhesives)
- Accordance with ASTM D6400 standards of compostability
- Application formats: Rollstock, SUPs



## Emerald Packaging at a Glance

Established in 1963, Emerald Packaging is one of the largest flexible packaging manufacturers on the West Coast and is a leading supplier of produce packaging nationwide. We offer a variety of flexible packaging products including bags, laminated stand up pouches, rollstock and lidstock.

### Capability Highlights

- Sustainable packaging portfolio
- Printed bags, pouches and rollstock
- 3-ply laminations and coatings
- eLid™ lidding
- Anti-fog
- Laser microperforation
- Laser scoring
- Inno-Lok® pre-applied zipper
- Barrier packaging
- Microwaveable packaging
- Registered matte varnish
- Digital printing

### Company Highlights

- 10-color printing, up to 225 line screen
- Over 55 years in business
- 200,000 sq. ft. manufacturing facility
- Lean and continuous improvement methodologies
- QC and R&D lab led by a Six Sigma Black Belt
- SQF-FSSC 22000 Certified
- Superior AIB rating
- Strategic OEM partners

## Walking the Talk: Sustainability Legislation

Unlike many plastics companies that try to avoid public policy, Emerald Packaging tackles it head on. We've been deeply involved with California legislators and regulators in developing programs to mitigate the impact of plastics on our environment.

- **Helped draft legislation** in California defining biodegradable packaging to fight false claims
- **First flexible packaging manufacturer** to be certified Green by the State of California
- **Helped create the law** that mandated best practice use by manufacturers to keep resin pellets out of the marine environment
- **Worked on legislation** requiring single use packaging be recycled by 2030
- **Member of ASTM D20.96 committee** on biodegradable packaging
- **California Business of the Year Award** in 2019





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