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**TRICORBRAUN**<sup>®</sup>

# Responsible Packaging for Nutraceuticals

RIGID & FLEXIBLE OPTIONS | STOCK & CUSTOM SOLUTIONS



**Kindness and Mischief Coffee**  
Compostable and renewable materials



**MUDWTR**  
Recyclable and reusable



**Reed + Gwen**  
Recycled material



**Just Made**  
Bio-resin



**Project Clean**  
Recycled material



**Soma Apple Cider**  
Recyclable



**Tag No.5 Vodka**  
Lightweight



**Moody Ales**  
Recyclable



**Melaleuca Sei Bella**  
100% recycled cardboard



**Tandem Coffee Roasters**  
Fully compostable and BPI certified



**Truman's**  
Refillable



**Juice Plus+**  
Reduced plastic



**Kentucky Peerless**  
Recyclable

## A PASSION FOR PACKAGING

Responsibility is the new sustainability. The Covid-19 pandemic brought many shifts in consumer behavior, and with this evolution came an expanded definition of sustainability. There is now a keen awareness of the demanding consumer economy and how easily it affects both our delicate ecosystems and evolving communities.

The new sustainable mindset encompasses the balance of both environmental and social “responsibility.” Consumers recognize their impact and are striving to make choices, or purchases, that benefit the greater good. However, it’s not just consumers. Government legislation and large retailers are also placing responsibility on brand owners to minimize the heavy burden of single-use plastics and other packaging pieces on the environment.

**Brands that take measurable action toward environmental and social improvement and communicate their goals effectively will win their consumer’s trust, and ultimately, purchase loyalty.**

*87% of consumers agreed that companies have a responsibility to protect the planet and its people, according to a study conducted by Wunderman Thompson Intelligence.*

**Savvy brands will leverage primary packaging to tell their story.** Every brand will have unique goals. At TricorBraun, we help our customers navigate this journey by evaluating various materials and methods in order to provide the most responsible packaging solution for their product.

We leverage our global supply chain expertise, expansive and sustainable footprint, and unmatched purchasing power to identify the best sourcing partners and cost-effective solutions for our customers.

In a world full of complexity, deadlines and budget constraints, we never lose sight of your brand objectives and the undeniable role that packaging plays in the success of new and refreshed products. This way you can remain focused on what’s inside the package.

GOVERNMENT LEGISLATION	LARGE RETAILERS	CONSUMERS
<ul style="list-style-type: none"><li>• UK and some EU nations have a virgin resin tax, other countries considering similar policy</li><li>• Several US states have passed or are considering legislation covering recycled content requirements, labeling claims, and EPR initiatives</li><li>• Affects production, marketing and disposal of packaging</li></ul>	<ul style="list-style-type: none"><li>• Implementing sustainable packaging commitments and goals with target completion dates of 2025-2030</li><li>• Focus on private label, but multinational brands are taking heed to ensure better brand positioning and retail shelf space</li><li>• Focus on refillable, recyclable, or reusable</li></ul>	<ul style="list-style-type: none"><li>• 54% say the sustainability of the packaging is a factor in their product selection process</li><li>• Millennials and Gen Z are choosing to pay more for sustainable options</li><li>• Loyalty is driven by corporate responsibility and sustainability initiatives</li></ul>

# Comparing Sustainable Packaging Options

## MATERIAL SELECTION



### ← LEAST EXPENSIVE

#### NON-PLASTIC

##### Paper

- Breaks down faster and is compostable in some forms
- Can be 100% recyclable if no coatings or films are required for the formula

#### PCR (POST-CONSUMER RESIN)

##### PET

- Easily recyclable
- Natural color has gray tint
- Odor can be present

##### PE

- Maintains barrier properties of virgin PE
- Limited supply available in natural color
- Odor can be present

##### PP

- Limited supply
- Works best with dark colorant
- Odor can be present

#### NON-PLASTIC

##### Glass

- 100% recyclable and reusable
- Fragile and heavier to ship

##### Aluminum

- 100% recyclable, durable and ideal for reuse
- Requires higher MOQs
- Limited supply

#### CHEMICALLY RECYCLED RESINS

- 100% recycled content
- Comparable in quality and color to virgin resin

*DISCLAIMER: This is meant to be a general guide. Pricing scale is extremely relative to the size of the package, tooling, and any material adders for compatibility. Contact us for the most up-to-date information.*



**MOST EXPENSIVE**

#### ALTERNATIVE RESINS

##### Ocean Bound

- Reduces plastic waste bound for the ocean
- Limited supply available
- Cost is typically 2X virgin resin

##### Bio-Resins

- Reduces use of petroleum-based resins
- Can be added in increments as low as 5%
- >5% bio-resin coded as #7 (non-recyclable), exceptions exist for PE and PET
- Requires extensive stability and compatibility testing
- Cost is typically 3X virgin resin

#### BIODEGRADABLE ADDITIVES

##### Flexibles, HDPE, LDPE, PE

- Can improve biodegradability or compostability
- Low durability and barrier properties
- >5% bio-resin coded as #7 (non-recyclable), exceptions exist for PE and PET
- Supply and scalability can be a limiting factor

## OTHER SOLUTIONS

### MONO-MATERIAL

- Made with one resin, or a combination of resins from the same family
- Optimal for single-stream recycling
- Limited supply available for multi-component products

### ALL-PLASTIC

- All components made of plastic (no metal), but resins types can differ
- May be easier to recycle than mixed-material products (validate with testing)
- Pricing can be higher than mixed-materials products
- Major retailers are trending towards all-plastic requirements

### LIGHTWEIGHTED

- Reduces unnecessary plastic
- More efficient to ship
- Testing required to assure package integrity

### REFILLABLE & REUSABLE

- Reduces single-use packaging materials
- Should be easy to clean

### DESIGN OPTIMIZATION

- Improves pack out
- Reduces shipping emissions
- Increases filling line efficiency

### OPERATIONAL IMPROVEMENTS

- Optimize logistics to reduce carbon footprint
- Reduce downtime and/or waste of unnecessary resources

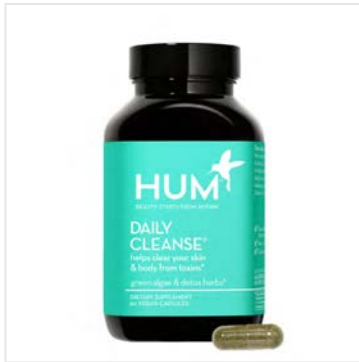


PRODUCT FOCUS: RESPONSIBLE PACKAGING



## CATEGORY INSIGHT

Based on consumer insights in the category, we have identified the top three packaging implications.



HUM

### IMPROVED RECYCLABILITY

- Monomaterial or all-plastic
- 100% recyclable materials
- Recycled material resins



Wholier

### ACCOUNTABILITY

- Honest and demonstrable claims
- Ingredient and manufacturing transparency on-pack
- Trusted certifications



Metis

### ETHICAL

- Locally sourced ingredients communicated on-pack
- Less single-use plastic packaging
- Reusable

**TricorBraun is able to source stock or custom design package solutions focused on Improved Recyclability, Accountability, and Ethical solutions.**



PRODUCT FOCUS: RESPONSIBLE PACKAGING



A close-up photograph of a person's hand holding a single white, round pill. To the left, the open white cap of a pill bottle is visible. The background is dark with soft, out-of-focus blue light streaks. A white rectangular box is overlaid on the right side of the image, containing the text 'STOCK SOLUTIONS' in a bold, black, sans-serif font.

# STOCK SOLUTIONS



#### LIGHTWEIGHT PET PACKERS

**Fill Capacity:** 225, 250, 300, 400, 500, 625, 750cc

**Neck Finish:** 45-400, 53-400

**Material:** PET, up to 100% PET PCR

*Custom manufacturing process enables lighter weight bottles with superior performance and reduced plastic use (up to 30% less material). Various colors available.*



### PLASTIC SQUARE AND ROUND PACKER BOTTLES

**Fill Capacity:** 30 - 1050cc

**Neck Finish:** Various

**Material:** PET or HDPE PCR

### BIOBOTTLES™

**Fill Capacity:** 50cc - 2 Gallon

**Neck Finish:** Various

**Material:** Oxo-biodegradable additive using Plastic IQ™ technology; can be added to virgin or post-consumer resin

*Biodegradable HDPE and PP technology remains shelf stable for 5+ years and begins to biodegrade when exposed to proper environmental conditions, leaving behind no microplastics. BioBottles™ are FDA and food grade compliant. Manufactured in the USA.*





### GLASS EURO DROPPER BOTTLES

**Fill Capacity:** 10, 15, 20, 30, 50ml

**Neck Finish:** 18 DIN

### GLASS BOSTON ROUND BOTTLES

**Fill Capacity:** 0.5, 1, 2, 4, 8, 16oz

**Neck Finish:** 18 DIN, 20-400, 22-400,  
24-400, 28-400

### GLASS PACKER BOTTLES

**Fill Capacity:** 60 - 625cc

**Neck Finish:** 33-400, 38-400, 45-400, 53-400









## CAPS AND CLOSURES

**Material:** PP, PCR (varying percentages)

*Various colors, sizes, and styles available including: child-resistant, large diameter, dispensing (flip tops, disc tops), continuous thread (CT), embossed/debossed, smooth/ribbed closures, and more!*



### LIGHTWEIGHT 2-PIECE CHILD-RESISTANT CLOSURE

**Neck Finish:** 53-400, 63-400

**Material:** PP patented interlocking inner and outer caps; inner cap can be PCR

*Weight reduction of up to 2g per closure over traditional designs.*



### CHILD-RESISTANT PAPER PACKAGING

**Material:** Printed card construction

*Patented double-lock system certified under the 16 CFR 1700 guidelines for child resistance. Ideal for vape cartridges and plant-derived wellness products.*



PRODUCT FOCUS: RESPONSIBLE PACKAGING



### PCR SCOOPS

**Sizes:**

Scoops: 0.15 - 2.5cc, 4 - 18cc, 20 - 35cc, 9 - 65 cc, 90 -148 cc

Graduated cups: 4 - 16 oz

Specialty spoons: 1/4 tsp to 1 tbsp

**Material:** PP PCR (up to 100%)

**Finish:** Natural gray can be tinted, handles can be embossed



### BIOTRÉ 3.0

**Sizes:** 6, 8, 10, 12, 14, 16oz; 2lbs

**Styles:** Block bottom bag with optional valve and/or pocket zipper, stand-up pouch with zipper, side gusset bag with optional valve

**Material:** Biotrē 3.0 is a high-barrier flexible packaging film made from renewable and compostable resources such as wood pulp. *The entire bag is certified compostable by the Biodegradable Products Institute (BPI).*

**Colors:** White, black, natural kraft



### POLYRECYCLE™ BY TRICORBRAUN FLEX

**Material:** PolyRecycle™ is a How2Recycle® pre-approved, flexible polyethylene (PE) film packaging material ideal for dry, free-flowing products including specialty food and powders.

*Available now and pre-qualified for store drop-off by consumers in the US, and curbside in Canada.*



### **SPOUTED FLEXIBLE POUCH**

**Fill Capacity:** 12, 32, 64 fl oz

**Spout Diameter:** 10, 13, 13mm

*Consider spouted pouches as your primary package solution, or, as part of a sustainable refill system.*



### **PAPER SOLID STICK PUSH-UP TUBE**

**Dimensions:** Ø 20, 34, 38, 42.5, 48, 50 mm;  
no limit on height

**Material:** Paper with PE coated interior;  
recycled paper available







### ALUMINUM JARS

**Fill Capacity:** 10 - 250ml; larger sizes available based on shape

**Neck Finish:** Various; can be threaded or slip/click-fit depending on jar style

**Material:** Food-grade aluminum (subject to product compatibility testing)

**Finishes:** Silver or special; customizable via lithographic printing, embossing/debossing, gloss and matte finishes, PS liner supplied depending on style (other liners available upon request), can be lacquered or color-coated; **over 4000 custom molds are available to accommodate unique shapes.**



### 2-PIECE CHILD-RESISTANT CLOSURE FOR ALUMINUM BOTTLES

**Neck Finish:** Ø 30mm neck, Ø 32mm piercing

**Material:** HDPE, LDPE

## ALUMINUM TUBES

**Fill Capacity:** 2 - 275ml

**Dimensions:** 13 standard diameters available  
(9.8 - 45mm)

**Material:** 100% PCR or virgin aluminum



## ALUMINUM BOTTLES

**38-400 neck finish available in sizes:**

- 45mm x 95mm (130cc)
- 53mm x 110mm (208cc)
- 59mm x 140mm (335cc)
- 59mm x 160mm (385cc)

**24-410 neck finish available in sizes:**

- 35mm x 97mm (65 to 80ml)
- 45mm x 115mm (130 to 145ml)
- 45mm x 150mm (180 to 195ml)
- 53mm x 145mm (235 to 250ml)
- 53mm x 175mm (290 to 305ml)
- 53mm x 207mm (335 to 350ml)

**Material/Finish:** White, brushed aluminum



**38-400 WIDE  
MOUTH BOTTLE**

**24-410  
Ø35mm**

**24-410  
Ø45mm**

**24-410  
Ø53mm**





# CUSTOM DESIGN

Our Design and Engineering team consists of experienced team members in Category and Consumer Insight, Graphic and Industrial Design, Engineering, Quality, and Project Management. Our team's make-up ensures custom designs resonate with consumers (both functionally and aesthetically) and are manufactured to specification to ensure package performance.

**We are able to customize the full package.**

From bottle to closure, to unique label designs and decoration. We build more than 400 custom projects annually, hold hundreds of utility and design patents, and have earned more than 100 renowned industry awards.

The following concepts are designed for consumers, refined for manufacturability, and available for development.



Snap-on dispensing  
closure available with or  
without silicone valve



Consider PCR or  
alternative resin

Reduced plastic use for  
concentrated formula

Stock tool available  
in HDPE

CUSTOM DESIGN

Simple shape maximizes decoration options



Custom push & turn CR closure



Consider PCR or alternative resin



Soft radii and seamless profile

Consider PCR or  
alternative resin



Stackable design  
provides logistical  
efficiencies



Classic shape maximizes  
decoration space



## CUSTOM DESIGN


Includes label protection →



↑  
Consider PCR



— Shape and stackable design provides logistical efficiencies



Ready to explore how your packaging can reflect your commitment to being a responsible brand? Contact our award-winning team to get started.

Email us at [marketing@tricorbraun.com](mailto:marketing@tricorbraun.com)

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