PURE FORM SOLUTION

100% MICROPLASTICS-FREE

Sustainable Packaging, Grown From Nature.

Company & Product Overview Brochure

100%	0	15	6
COMPOSTABLE	MICROPLASTICS	PRODUCT LINES	TÜV CERTS

PHA & PLA bioplastics that biodegrade completely — in soil, marine, home, and industrial environments.

www.pureformsolution.com

WHO WE ARE

About Pure Form Solution

Pure Form Solution was built on a simple but powerful belief: that businesses shouldn't have to choose between quality products and environmental responsibility. We set out to prove that compostable, biodegradable alternatives could match conventional plastic in performance — and surpass it in impact.

Based in Austin, Texas, we manufacture an extensive line of PHA (polyhydroxyalkanoate) and PLA (polylactic acid) products — from straws and utensils to rigid containers and beverage packaging. PHA is produced through bacterial fermentation of plant-based oils and is the only bioplastic certified to biodegrade in all real-world environments: marine, soil, home compost, and industrial composting facilities.

We are more than a supplier — we are a sustainability partner, helping eco-conscious businesses transition away from single-use plastic through end-to-end programs built around their brand, their goals, and their customers.

6	15	0	100%
TUV AUSTRIA CERTIFICATIONS	PRODUCT LINES	PETROLEUM INPUTS	COMPOSTABLE & BIODEGRADABLE

OUR COMPLETE PRODUCT RANGE

Sugarcane-derived compostable bottles, PHA biodegradable straws and stirrers, compostable utensils, biodegradable lids and cups, pharmaceutical pill bottles, milk and juice jugs, boutique coffee bags, rigid and flexible containers, pizza savers, packer bottles, and meat packing trays — every item petroleum-free and engineered to meet ASTM D6400 and EN 13432 compostability standards.

ABOUT PURE FORM SOLUTION

Our Values & Leadership

WHAT WE STAND FOR

Planet First

Every decision starts with one question: is this better for the planet? Environmental impact guides materials sourcing and product design.

Science-Driven

Every material we use is independently tested and certified — proven bioplastics technology, not marketing claims.

Partnership-Oriented

Co-branded and white-label programs designed to be as easy to adopt as they are impactful for every business partner.

Circular Thinking

Products designed to return to the earth — or find a second life as animal feed or 3D printing material.

LEADERSHIP TEAM

Charlie Hodge
Chairman

Phil Patent
CEO

Justin Hartley
President

Jim McGinnis
VP Marketing & Sales

THIRD-PARTY VERIFIED CERTIFICATIONS

- OK Compost Industrial
- OK Biobased
- OK Biodegradable Marine
- OK Biodegradable Soil
- OK Biodegradable Water
- OK Compost Home

A CRISIS IN EVERY CORNER OF THE PLANET

Dangers of Microplastics

WHAT ARE MICROPLASTICS?

Microplastics are plastic fragments smaller than 5 millimeters — often invisible to the naked eye. They come from manufactured microbeads and nurdles, or form when larger plastic items break down under UV radiation, heat, and physical stress.

Unlike organic pollutants, plastics do not biodegrade. They simply fragment into smaller and smaller pieces while retaining their chemical makeup and the toxins they absorb — accumulating in ecosystems and living organisms for centuries.

THE SCALE OF THE CRISIS

14B lbs

Enter Oceans Annually

Plastic waste flows into our oceans every year, breaking down into microplastics that persist for centuries.

88%

Ocean Surface Polluted

Of the ocean's surface is now contaminated with plastic particles, disrupting marine food webs.

700+

Marine Species Affected

Documented ingesting or becoming entangled in plastic, accumulating toxins up the food chain.

1,000+

Years to Degrade

Most conventional plastics take to fully break down, fragmenting into smaller particles the whole time.

MICROPLASTICS & HUMAN HEALTH

Humans ingest an estimated 5 grams of microplastic every week — the equivalent of a credit card — through contaminated food, water, and air. Microplastics have been detected in tap water, bottled water, sea salt, and seafood, and a landmark 2022 study found microplastics in 77% of human blood samples tested.

DANGERS OF MICROPLASTICS

Documented Health Risks

Cardiovascular Disease

A 2024 study found microplastics inside arterial plaque — a 4.5× higher risk of heart attack, stroke, or death.

Hormonal Disruption

Plastic additives like BPA and phthalates interfere with hormone production, fertility, and thyroid function.

Respiratory Damage

Airborne microplastic fibers, inhaled daily, are linked to lung inflammation and reduced respiratory capacity.

Neurological Concerns

Nanoplastics can cross the blood-brain barrier; particles have been detected in human brain tissue.

Found in Human Blood

A 2022 study found microplastics in 77% of human blood samples — particles can travel to any organ.

Harm to Unborn Children

Microplastics detected in human placentas may disrupt fetal development and long-term health.

WHAT CAN BE DONE

Switch to Compostable Packaging

Plant-based packaging returns to the earth without fragmenting into microplastics — the most direct replacement for single-use plastic.

Support Circular Systems

Closed-loop packaging programs and composting infrastructure reduce plastic entering the environment at every stage.

Demand Transparency

Choose brands committed to plastic-free supply chains and measurable sustainability outcomes.

Our PHA & PLA packaging biodegrades completely — leaving zero microplastic residue.

15 LINES ENGINEERED TO REPLACE SINGLE-USE PLASTIC

Our Product Lines

- Biodegradable PHA Straws & Stirrers
- Compostable PLA Clamshell Boxes
- Bio-Degradable PHA Utensils
- PHA Milk & Juice Jugs
- Boutique PHA Coffee Bags
- PHA Coffee & Cocktail Stirrers
- Biodegradable Meat Packing Trays
- PHA Pop Top Containers
- PHA Biodegradable Lids & Cups
- Compostable Sugarcane Bottles
- Biodegradable PHA Pill Bottles
- Biodegradable PHA Pizza Saver
- PHA Rigid & Flexible Containers
- PHA Packer Bottle
- PHA Souffle Cups

See the following pages for a full product-by-product breakdown with images, descriptions, and available sizes.

SUSTAINABILITY PROGRAMS

- Concert Venue Sustainability Program
- Hospital Sustainability Program
- Hotel Sustainability Program
- School Sustainability Program
- Custom Sustainability Plans
- Airline Hospitality Program
- Hospitality Sustainability Program
- Institutional Venues Sustainability Program
- Sustainability Starts At Home Program

PRODUCT LINE

Biodegradable PHA Straws & Stirrers

PHA bio-degradable straws — 100% bioplastic, certified gluten-free, and made from fermented canola oil. They deliver the same rigidity and feel as conventional plastic straws while breaking down completely in marine and soil environments.

AVAILABLE IN

- Drinking straws
- Cocktail & beverage stirrers
- Standard and wide-diameter options
- Certified gluten-free

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

PHA Biodegradable Lids & Cups

Rigid, leak-resistant cups and lids that hold up to hot and cold beverages with no soggy walls or chemical leaching — fully biodegradable in marine and soil environments, home and industrial compostable, with zero microplastic residue.

AVAILABLE IN

- Hot cups: 8, 12, 16, 20 oz
- Cold cups: 12, 16, 24, 32 oz
- Fountain cups: 16, 20, 24, 32 oz
- Soup cups: 8, 12, 16, 20 oz
- Lids: flat, dome, sip-through

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

Compostable PLA Clamshell Boxes

Crystal-clear PLA clamshell boxes made from plant-based polylactic acid. Perfect for produce, deli, and baked goods — industrially compostable, food-contact certified, and zero petroleum.

AVAILABLE IN

- 8, 16, 32, 48 oz formats
- 4, 8, 12, 16 oz, 1 pint, 1 quart
- Single-serve & multi-serve sizes
- 24, 36, 48, 60 oz formats

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

Compostable Sugarcane Bottles

100% petroleum-free compostable bottles made from sugarcane, replacing PET plastic with a fully compostable, ocean-safe, US-produced alternative. At end of life they can even be repurposed as animal feed or 3D printing filament.

AVAILABLE IN

- Sugarcane-derived PET alternative
- Fully industrial compostable
- Ocean-safe materials
- Co-branding available

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

Bio-Degradable PHA Utensils

100% PHA bio-degradable utensils, certified home-compostable and fully biodegradable in marine and soil environments. A complete cutlery set — forks, spoons, and knives — with zero microplastic residue.

AVAILABLE IN

- PHA Forks
- PHA Spoons
- PHA Knives
- Home compostable
- Event & everyday ready

100% Compostable **Petroleum-Free** **Marine & Soil Biodegradable**

PRODUCT LINE

Biodegradable PHA Pill Bottles

PHA biodegradable pill bottles replace conventional plastic pharmacy bottles — fully compostable, petroleum-free, and safe for patients and the planet. Amber-tinted for standard UV-light medication protection.

AVAILABLE IN

- 30-count
- 60-count
- 90-count
- Amber tint for UV protection

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

PHA Milk & Juice Jugs

PHA biodegradable milk and juice jugs that replace HDPE plastic gallon jugs — fully compostable in marine and soil environments with zero microplastics and zero petroleum, food-contact certified.

AVAILABLE IN

- 16 oz pint / 32 oz quart
- 2-gallon and 4-gallon formats
- Opaque white or natural translucent

100% Compostable **Petroleum-Free** **Marine & Soil Biodegradable**

PRODUCT LINE

Biodegradable PHA Pizza Saver

PHA-based biodegradable pizza savers replace the billions of conventional plastic pizza table tripods discarded every year — fully compostable, petroleum-free, food-safe, and a direct drop-in replacement with no workflow changes.

AVAILABLE IN

- 40mm diameter
- 45mm diameter
- 55mm diameter

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

Boutique PHA Coffee Bags

PHA biodegradable coffee bags for boutique roasters — fully compostable, petroleum-free packaging that keeps coffee fresh and returns to the earth at end of life.

AVAILABLE IN

- 8 oz
- 12 oz
- 1 lb
- 5 lb
- Resealable zipper closure

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

PHA Rigid & Flexible Containers

Biodegradable PHA rigid and flexible containers — yogurt containers, cosmetic jars, food wrap, and fresh produce boxes that biodegrade in marine and soil environments, leaving zero microplastics.

AVAILABLE IN

- Yogurt containers: 4, 6, 16, 32 oz
- Cosmetic jars: pump, wide-mouth, dropper
- Food wrap: 100 & 200 ft rolls
- Produce boxes: pint, quart, bulk

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

PHA Coffee & Cocktail Stirrers

PHA biodegradable coffee and cocktail stirrers — home compostable, marine degradable, and plastic-free. The drop-in replacement for conventional plastic stirrers used by bars, cafes, and hotels.

AVAILABLE IN

- Coffee stirrers
- Cocktail stirrers
- Sample packs and wholesale volumes

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

PHA Packer Bottle

PHA-based biodegradable packer bottles replace conventional plastic supplement and nutraceutical bottles — fully compostable, petroleum-free, and pharmaceutical-grade safe.

AVAILABLE IN

- 150cc (5 oz) capacity
- 104mm tall
- 50mm diameter

100% Compostable **Petroleum-Free** **Marine & Soil Biodegradable**

PRODUCT LINE

Biodegradable Meat Packing Trays

PHA Meat Packing Trays — a compostable, marine and soil biodegradable alternative to conventional PET/PP MAP trays and styrofoam trays used for fresh meat, poultry, and seafood packaging.

AVAILABLE IN

- 13×13 cm
- 19×13 cm
- 26×20 cm
- 33×22 cm
- Depths from 3.5cm to 7cm

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

PRODUCT LINE

PHA Souffle Cups

PHA-based 2 oz black souffle cups replace the billions of conventional plastic portion cups discarded every year — fully compostable, petroleum-free, and food-safe with the exact capacity and lid fit of standard cups.

AVAILABLE IN

- 2 oz capacity
- Standard souffle cup diameter
- Tight-fitting lid compatible

100% Compostable **Petroleum-Free** **Marine & Soil Biodegradable**

PRODUCT LINE

PHA Pop Top Containers

PHA biodegradable pop top containers with child-resistant security and airtight freshness for gummies, chocolates, mints, capsules, and cannabis-infused treats. A drop-in replacement for polypropylene pop-top containers, fully compostable and food-safe. Samples available to qualified businesses from October 2026.

AVAILABLE IN

- 13 to 90 dram capacity range
- Child-resistant snap-shut hinge
- Airtight freshness seal
- Home & industrial compostable

100% Compostable | **Petroleum-Free** | **Marine & Soil Biodegradable**

Let's Build a Sustainable Future Together.

From single-use straws to full-scale packaging programs, Pure Form Solution partners with businesses ready to eliminate plastic waste without compromising performance.

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Zero petroleum inputs. No microplastic residue. Packaging that feeds the soil, not landfills.