

Bernastic Achieves Major Manufacturing Milestone with First 2,500-Pound Production Run of Next-Gen Sustainable Material

Materials innovator demonstrates scalable production while expanding applications beyond pallets through injection molding and additive manufacturing.

ATLANTA, GA, UNITED STATES, July 16, 2026 /EINPresswire.com/ -- [Bernastic](https://www.bernastic.com/), the advanced materials company transforming textile waste into high-performance manufacturing materials, today announced the successful production of its first 2,500-pound run of Bernastic, marking a significant milestone in the company's journey from research and development to scalable manufacturing.



The production run represents years of materials research, formulation refinement, engineering, and testing aimed at solving one of the world's largest environmental challenges: finding meaningful, scalable applications for textile waste.

"What started as a simple question, What else could this be?, has evolved into a completely new way of thinking about waste," said Michael Bernstein, Founder of Bernastic. "This milestone isn't simply about producing 2,500 pounds of material. It's about demonstrating that a concept many believed was impossible can now be manufactured at meaningful scale."

Bernastic combines engineered textile waste with recycled polymers to create a durable composite material designed for manufacturing applications. Rather than attempting to recycle textiles back into clothing, the company takes a cross-industry approach, transforming cotton waste into materials suitable for infrastructure and industrial products.

Alongside the production milestone, Bernastic has continued demonstrating the versatility of the

material through multiple manufacturing processes. The company has successfully injection molded hangers from Bernastic, produced 3D-printed demonstration parts, and continues evaluating applications across industries including logistics, retail, construction, consumer products, furniture, and manufacturing.

"The hanger isn't the story," Bernstein said. "It's proof that textile waste doesn't have to become textiles again. It can become infrastructure. It can become manufacturing components. It can replace virgin materials in products people use every day."

The announcement follows a series of recent developments for Bernastic, including growing industry interest in the company's approach to reducing textile waste while decreasing dependence on virgin materials. The company's first commercial focus remains the global pallet industry, where replacing traditional wooden pallets with durable, recyclable alternatives has the potential to reduce deforestation while extending product life. The same material platform is also being evaluated for additional applications including retail hangers, industrial components, consumer products, furniture, and other injection-molded products.

While Bernstein acknowledges significant work remains ahead before full commercial deployment, he believes the production milestone validates years of research and development.

"Every breakthrough is built on countless failures that nobody sees," Bernstein said. "This week felt different because it demonstrated something tangible. We're moving beyond prototypes and proving that this material can be produced at meaningful scale. That's an exciting step, but it's still just the beginning."

Bernastic's broader vision extends beyond any single product category. By reimagining textile waste as a high-performance manufacturing material, the company aims to help manufacturers reduce landfill waste, decrease reliance on virgin resources, reduce pressure on forests, and create more sustainable supply chains across multiple industries.

Organizations interested in evaluating Bernastic for manufacturing, product development, sustainability initiatives, or supply chain applications are invited to request a sample for testing or supply consideration by contacting Michael Bernstein at michael@bernastic.com.

About Bernastic

Bernastic is an advanced materials company developing high-performance manufacturing compounds from engineered textile waste and recycled polymers. Founded by materials innovator Michael Bernstein, the company is pioneering new approaches to transforming apparel waste into durable industrial materials for applications ranging from logistics and retail to consumer products, furniture, and infrastructure. Bernastic's mission is to help manufacturers replace virgin materials with sustainable alternatives while creating meaningful new end-of-life pathways for textile waste.

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