

Green Dot Bioplastics Introduces Terratek® Biocomposites Made with More Than 90% Renewable Feedstocks

Green Dot now offers a line of biocomposites combining natural fibers and Braskem's I'm Green™ Polyethylene.

Company leaders are always seeking new materials to meet the growing consumer demand for more sustainable plastic products. For years, Green Dot has worked with plastics manufacturers and product designers to make products that help consumers contribute to a more sustainable world.

Terratek Biocomposites are designed to meet the rapidly growing consumer demand for more sustainable plastic products. The biocomposites are made with more than 90 percent renewable feedstocks. They can be produced using a variety of natural fibers and agricultural byproducts including wood, corn cob, hemp or wheat stalk. Custom formulations can be developed to meet the specific value propositions for a product or market segment.

Terratek Biocomposites combine these natural fibers with Braskem's I'm Green Polyethylene (PE) to create a strong, durable biocomposite. Terratek biocomposites can deliver a wide range of physical characteristics with a lighter environmental footprint compared to petroleum-based plastics. The natural fibers provide strength and durability to the plastic and add a unique natural aesthetic to enhance product differentiation.

The biobased I'm Green PE from Braskem is made from ethanol – a renewable and sustainable resource produced from Brazilian sugarcane. The cultivation of sugarcane removes carbon dioxide from the atmosphere and releases oxygen, which means the material has a negative carbon footprint. I'm Green PE took years of dedicated research and development, and in 2010, Braskem began producing I'm Green on a commercial scale.

Green Dot produces Terratek Biocomposites at its Kansas plant. Pellets are optimized for

injection molding, profile or sheet extrusion.

Green Dot's Terratek Biocomposites open a wide range of new possibilities for biobased plastics, enhancing physical properties while lightening the environmental footprint of the products everyone uses every day.

Want to learn more about biocomposites? Download *Biocomposites vs. traditional plastics* and discover the benefits of biocomposites, their differences from traditional plastics and how they are part of the answer for reducing the carbon footprint.



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