



**BIODEGRADABLE* BY NATURE
HELPED BY EPSILYTE**

BIODEGRADABLE* AND UNCOMPROMISED

All Epsilyte products designed for disposable applications now contain **EVRgreen®** biodegradable* technology, but the products you buy from Epsilyte have not changed.

Our innovation lies in its simplicity. EPS polymers degrade naturally in the environment. Until now, these would have taken a very LONG time to degrade.¹ Enter **EVRgreen** technology, accelerating degradation by attracting more bugs to the table letting nature take it from there.

With **EVRgreen** technology, Epsilyte materials used in disposable applications will be well over 90% gone in just four years. This is why we say, "biodegradable by nature, helped by Epsilyte."

***EVRgreen®** EPS biodegrades 94% over four years, compared to cellulose, using the ASTM D5511 test that simulates wetter and biologically active landfills, which do not exist in all parts of the U.S. The stated rate and extent of degradation do not mean that **EVRgreen** will continue to degrade. No claim is deemed to be made in any state or locality that prohibits the making of biodegradability claims on this or similar products.

¹Ba Thanh Ho, Timothy K. Roberts & Steven Lucas(2018) An overview on biodegradation of polystyrene and modified polystyrene: the microbial approach, Critical Reviews in Biotechnology, 38:2, 308-320, DOI: 10.1080/07388551.2017.1355293
Article Link: doi.org/10.1080/07388551.2017.1355293





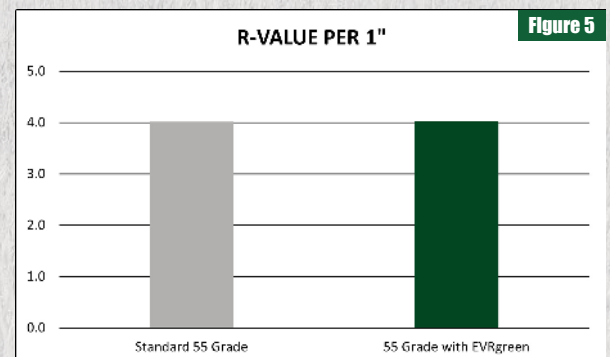
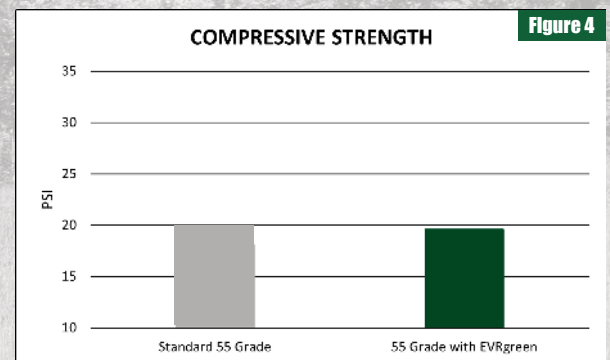
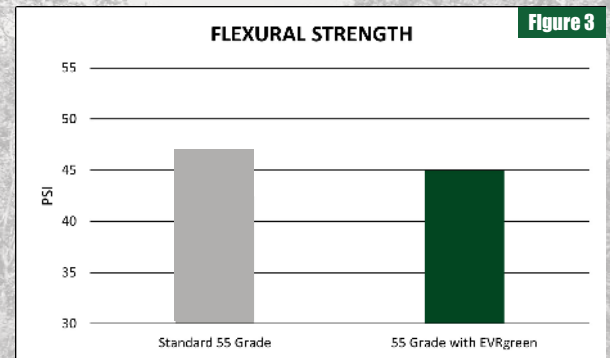
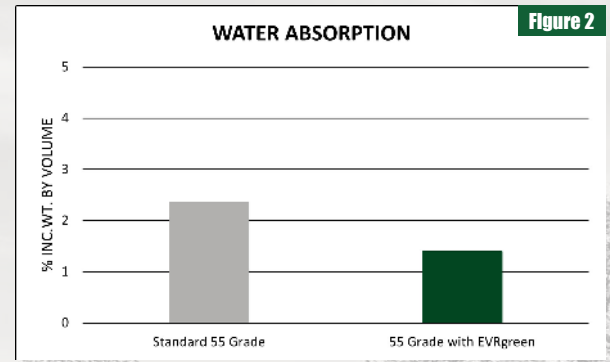
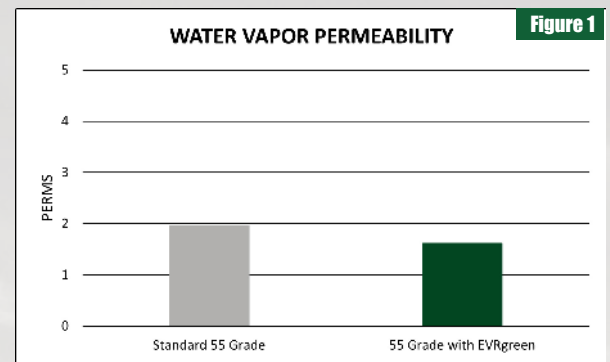
CAN A MATERIAL BE BOTH BIODEGRADABLE* AND NOT ABSORB MOISTURE WHILE IN USE?

We had the same question. As shown in Figures 1 and 2, we know that water is an integral part of the biodegradation mechanism for our advanced materials. But also know that our customers rely on Epsilyte materials to keep their perishable shipments dry. Epsilyte has extensively tested materials made with EVRgreen technology to ensure that we don't invite the bugs to the table at the wrong time!

Epsilyte's biodegradable* technology does not negatively impact physical property performance, as shown in Figures 3, 4, and 5. Testing was performed in Epsilyte's ISO-certified testing facility.

Because **EVRgreen** technology is an enzymatic degradation process (not oxo degradation), it does NOT:

- Become brittle
- Affect shelf life
- Create microplastics
- Require UV protective packaging
- Change the base resin properties
- Biodegrade without a microbe-rich environment



Data generated using ASTM C578 Type II samples (minimum 1.35pcf)

Rev. 2