BIO-BASED PE

SUGAR CANE DERIVED

Bio-Based PE (Polyethylene) is chemically identical to standard PE but derived from renewable sugarcane ethanol rather than fossil fuels. This "drop-in" solution captures CO2 during the sugarcane growth cycle, resulting in a carbon-negative material production process. It offers the exact same durability, seal strength, and barrier performance as conventional plastics without the environmental guilt.

MATERIAL STRUCTURE

Print	Bio-PET / Paper
Barrier	AL / VMPET
Sealant	Bio-PE (Sugar Cane)

CERTIFICATIONS

Bonsucro | ASTM D6866 | Carbon Trust

TECHNICAL PERFORMANCE

Thickness	100 - 160 microns
WVTR	< 1.5 g/m²/day
OTR	< 1.5 cc/m²/day
Seal Strength	> 35 N/15mm

KEY FEATURES

- Renewable Resource
- Carbon Negative
- High Strength
- Drop-in Replacement

COMMON QUESTIONS (FAQ)

Q: Is it biodegradable?

A: No, it is a durable plastic but made from plants. It is fully recyclable (Code 4).

Q: Does it affect shelf life?

A: No, performance is identical to fossil-based PE.

Q: How is it verified?

A: We use Carbon-14 testing (ASTM D6866) to verify bio-based content.