

The Make-Up of Organix A.G. Film (Peeling the Onion)



What's it made of?

Layer 1: Organix A.G. Film is a high performance biopolymer that is partially bio-based and partially carbon based.

What's the biobased part?

What do you mean "carbon based"?

Layer 2: It's a biopolymer called PLA

It's a biopolymer called PBAT

What's PLA?

What's PBAT?

Layer 3: **PLA (Polylactic Acid)** is made from corn. Chemists take the sugar from corn, add microorganisms to ferment the sugar into lactic acid and use that to make a long chain polylactide biopolymer. Microbes in the soil love this stuff as a food source.

PBAT (Polybuterate Adipate Terephalate) comes from petroleum. Chemists peel off Butanediol in the refining process which is the building block to this incredible biopolymer that completely biodegrades FASTER than bio-based polymers like PLA. It's the PBAT component that makes our film so easy to lay.

In short: We balance bio-based content and non-renewable content into a compound making Organix A.G. Film durable yet 100% soil biodegradable.

Supported by: See TUV Certification + 5 year USDA study at Montana State University, Washington State University and The University of Tennessee. Link on our website: <https://organixsolutions.com/ag-mulch-film/view-the-research>.