



Australian Made & Certified Soil Biodegradable Mulch Film

10 million tons of plastic mulch films are used in farming. This is expected to increase by 20 per cent annually, and none of this plastic is truly biodegradable. As a result, plastic debris accumulates in farm soils or landfill, or in the natural environment.

<https://www.csiro.au/en/research/production/materials/Sprayable-biodegradable-polymer-membrane>

Certified ISO 23517: 2021



Why I Made the Switch

For over 20 years, I made traditional plastic products – it was what I knew, what paid the bills. But then one evening, my daughter said, “Dad, you know plastic is ruining the planet, right?” She was only 12, but she wasn’t wrong.

Her school projects were all about pollution, the oceans, and microplastics. She even joked that I was “part of the problem.” It stung – not because she was teasing, but because deep down, I knew she was right.

That moment stayed with me. I started reading, researching, and asking questions. And what I found made it impossible to keep going the same way. That’s when I discovered biodegradable alternatives.

Now, we make mulch film that breaks down in the soil – no microplastics, no harm. I’m proud of what we do. And more importantly, my daughter is too.

**Make Small Change.
Have A Big Impact.**



The Hidden Cost of Conventional Plastic Mulch

For decades, Australian farmers have rolled out kilometres of plastic mulch film to protect crops and conserve water. It worked—until we discovered the cost.

Microplastics are now contaminating Australian soils, quietly degrading their health and productivity. Once in the soil, these tiny fragments are nearly impossible to remove. Even when plastic mulch is pulled up and disposed of properly, **residues remain**—polluting the ground and risking long-term damage to ecosystems and food safety. Why continue using a material that silently harms the land we rely on?

There's a Better Way

Our **Soil Biodegradable Mulch Film** offers all the same benefits:

- Weed control
- Moisture retention
- Soil warming
- Faster germination
- Higher yields

But with one major difference – it leaves nothing harmful behind.

After harvest, the film can be **ploughed directly into the soil**. It naturally breaks down into water, **carbon dioxide, and organic matter**—restoring, rather than polluting, your soil.

It's certified to Soil Biodegradable **ISO 23517:2021** by the Australian Bioplastics Association

Why It Pays to Switch

- No plastic removal or disposal costs
- Compatible with your existing mulch-laying equipment
- Improves long-term soil health
- Reduces risk of microplastic contamination in food crops
- Contributes to a cleaner, more sustainable agriculture system

Yes, the upfront cost may be slightly higher.

But the savings on labour, plastic disposal—and most importantly, the **health of your soil**—make it a smart long-term investment.

**Grow vegetables without microplastics.
Protect your soil. Farm for the future.**



About Biobag

Biobag comes from a profound driving force to do better as soon as we know better. We are a counter to unconscious habits & culture standing in the way of environmental change. We want to serve all people, businesses, communities, and governments, who want to change behaviour for positive environmental impact, and so we fight to create actual behaviour with the biggest environmental impact possible, by inventing products that will make existing behaviour not only less harmful, but beneficial to the environment without comprehensive transformation of our day-to-day routines.

Our certifications & Technical specifications

All Biobag bags and mulch film are 100% biodegradable and compostable, and made of Mater-Bi, a bioplastic raw material created by combining starch with compostable and biodegradable polymer. Our customers can be confident that they are using the best environmentally sound products with the highest quality as Biobag products are Certified Compostable according to the Australian standard AS4736. Additionally, Biobag holds compostable and biodegradable certificates issued by certification institutions like TÜV Austria (OK Compost) and BPI (USA).

Mater-Bi is certified ISO 14067:2018.



BioAgri is an Australian Family owned company

