

COMPOSTABLE BIOPLASTICS THE BEST SOLUTION TO SINGLE-USE MENACE



WHAT ARE COMPOSTABLE BIOPLASTICS?

Bioplastic films either biodegrade in a natural environment or **compost in a composting bin** and give back to the planet.

Bioplastic films have a **shelf life of 180-260 days** and leave **no toxic residue** (micro & nano-plastics) at the end of their lives. Unlike paper they don't contribute to deforestation and can be used in all application that require flexible LDPE, PP, BOPP, PE plastics.

These films match plastics' quality, features, **tensile strength & water resistance**, making it the best alternative available

WHAT ARE BIOPLASTIC FILMS MADE OF?

Bioplastic films are made from various biodegradable materials for different purpose. Some of the key materials used to create packaging, logistics & tableware are **Cellulose Fibre, Polylactic Acid, Polybutylene adipate terephthalate (PBAT), Polylactic Acid (PLA), PBS** along with calcium and starch blends.

These materials are derived from either vegetable starch or less processed biodegradable petroleum base. These raw materials are now extensively produced and approved by various government & environment bodies.

TOWARDS A CIRCULAR FUTURE

CERTIFICATIONS



Across the globe, there are many certifications required by different regions/countries such as **BPI, Australasian Bioplastics, ASTM International, European bioplastics, AS 5810, AS 4736.**

A widely accepted certificate is awarded by **TUV Austria** proving **OK Compost Industrial & Home** certifications to raw materials and film manufacturers.

While in India, the mandating body **Central Pollution Control Board of India** certifies manufacturers of compostable bioplastics, based on testing in **CIPET labs considering (ISO) 17088 mandates**

Global Plastics flexible packaging industry of USD 231 Billion.

Global Bioplastics Market is valued at USD 8.4 Billion in 2022 and is projected to reach a value of USD 19.2 Billion by 2030.

ECO-HIVE'S PACKAGING FIX



SAVINGS



CUSTOMIZATION



SCM PLANNING



END OF LIFE PLAN



CERTIFIED NETWORK



QUALITY CONTROL



IMPACT ASSESSMENT



LCA & ESG