

ECOPLASTEAM CONTEXT

Ecoplasteam creates a third material by treating the constituents of poly laminates PO-AL (plastic-aluminum). This means that it is a part of the circular economy, with the most innovative poly laminate treatment technologies.

THE IMPLEMENTATION

As a consequence of recycling "tetrapak" food and beverage containers, of which more than 1.4 billion are gathered in Italy alone, Ecoplasteam is a firm that leverages technology, development, and sustainability to build procedures for the end of waste* of poly laminates. The three layers of cellulose, plastic, and aluminum that make up these containers have previously been disposed of in landfills and incinerators or partially recycled at a high expense, high energy cost, and low material quality. However, there is a technique to make them enduring.

IMPACT CREATED

1. The creation of a new, environmentally friendly plastic material with a wide range of uses that can be used to recycle items that would otherwise be burned or dumped in landfills, such as beverage and food containers, candy packaging, bags for fatty goods, and "non-compostable" capsules for hot beverages.
2. Products are made using a patent-protected manufacturing process granted by the Swiss company REPLAN Global Sagl, which owns the trademark, patent, technical experience, and processes used to create EcoAllene®.
3. The innovation is in the waste treatment process: rather than separating the two or more components (plastic film + metal film), they are kept aggregated in a new formula via the patented process.
4. This breakthrough lowers the cost of recycling, giving the finished product a significant competitive advantage in terms of marketability when compared to its immediate competitor, virgin plastic manufactured from crude oil.

Ecoplasteam concept:

- It turns a poly laminate (PO-AL) into a transformable and reusable material.
- It creates a material which is completely workable with technical characteristics comparable to virgin material.
- It has characteristics which make it 100% recyclable, and bring it into the cycle of transformation and re-use of plastic.
- It creates a solution to the long-standing problems of separation of poly laminates, turning them to all intents and purposes into a second raw material which is renewable, recyclable and which can return to the market an infinite number of times.
- They use the term open loop because the treatment system introduces the possibility to reuse the material, going from primary processes to secondary processes.

MORE INFORMATION

- Website: <https://www.ecoplasteam.com/en/>
- Pictures:



