

# AMB Sustainability Path: IMPACT MEASUREMENT



In our world where the environment and our place in the sustainable circular economy have become more important than ever, we have an active agenda to participate in the most complex sustainability challenges within packaging production.

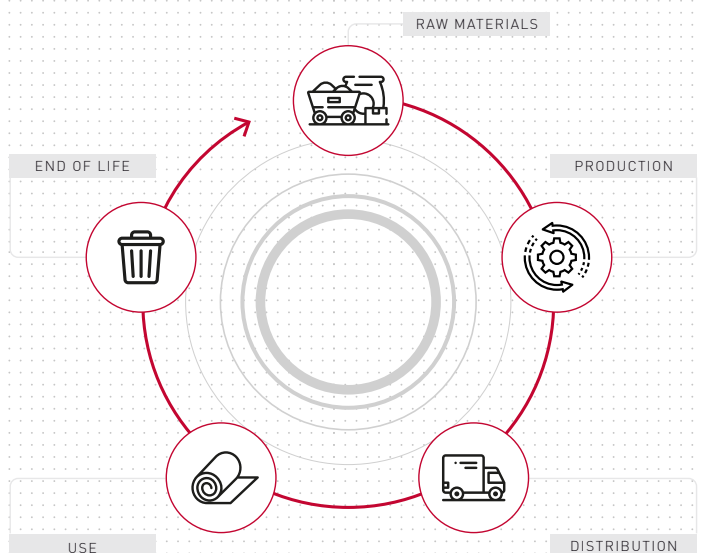
**OUR FIRST STEP IS TO MEASURE AMB PRODUCTS' IMPACT THROUGH LCA APPROACH AND EPD CERTIFICATIONS.**

## LCA

An ISO standard methodology that assess the **environmental impacts** of a product or a process throughout its life cycle, starting **from raw materials** production to use and **end of life** phases.

The LCA approach provides a production system overview and the environmental effects along its **entire supply chain**. It equally considers different forms of impact: **polluting emissions**, **use of resources**, **energy consumption** and **waste production**.

## LIFE CYCLE ASSESSMENT



## EPD<sup>®</sup>

A third party certification communication tool that enables **comparison of LCA analyses' results**. The preparation of EPD always passes through a series of rules by reference standards, more specifically the EPD general program instructions and the **Product Category Rules (PCR)**.

## ENVIRONMENTAL PRODUCT DECLARATION

### WHICH ARE THE EPD FUNDAMENTAL INFORMATION?

- Description of the company and the products with reference to performances
- The system boundaries considered for the analysis of the environmental impact
- A clear list of the environmental indicators used to express the impact, highlighting each cycle phases contribution to the overall impact





The products examined in this study fall into the “**industrial type packaging**” category, as they are sold as reels without branded printing. The products are designed to be converted into trays/containers and used mainly for packaging food products.

### MULTILAYER PET/PE/EVOH/PE 500 µm Thickness

A PET film laminated with flexible PE film with EVOH barrier which allows for a longer shelf life products packed in vacuum packaging or modified atmosphere.

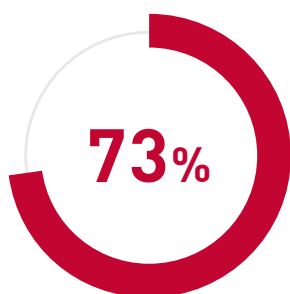


### THE ONES EXAMINATED IN THESE EPDS ARE

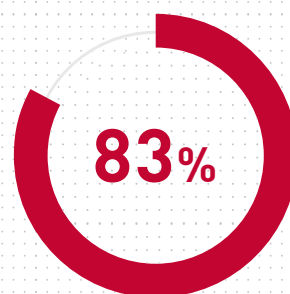
*All environmental impacts  
refer to 1m<sup>2</sup> of film products*

### MONOLAYER PET HB 450 µm Thickness

The high barrier mono PET is a coextruded mono PET with an oxygen scavenger that inhibits the air passing through the film.



PRESENCE OF RECYCLED PET

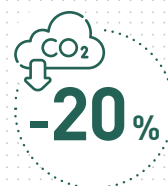


1,2

### GLOBAL WARMING POTENTIAL (GWP)

Greenhouse gases emitted along the entire life cycle  
kgCO<sub>2</sub> / 1m<sup>2</sup> of film

0,9

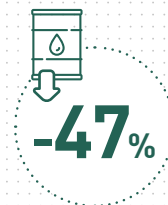


22,8

### ABIOTIC DEPLETION POTENTIAL FOSSIL FUELS (ADP-f)

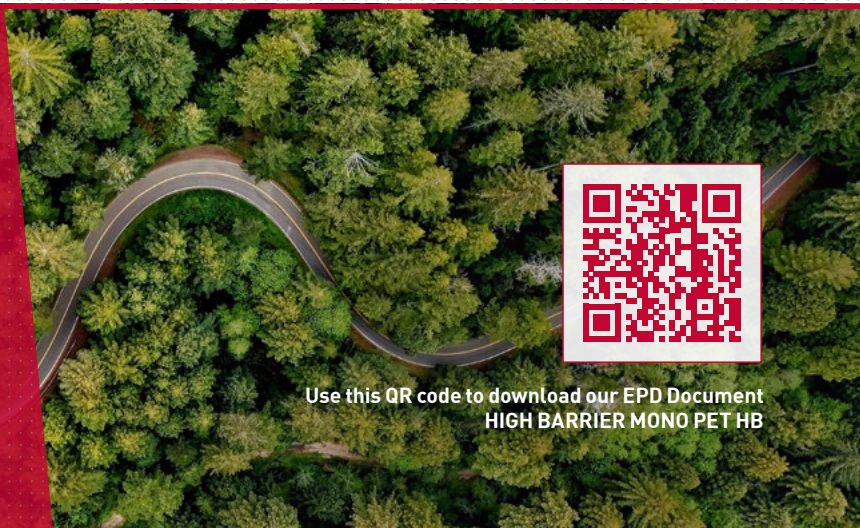
Decreasing availability of fossil fuel resources  
MJ / 1m<sup>2</sup> of film

15,5



The Life Cycle Assessment study has been performed through a “**cradle-to-gate with options**” approach, from resource extraction to the factory gate.

The products’ transportation to customers in reels form and the final disposal at the end-of-life stage have also been considered. The thermoforming process is outside the system boundaries and therefore it has not been included in the study.



Use this QR code to download our EPD Document  
HIGH BARRIER MONO PET HB