



DURAFIT
BIOBASED

BIOBASED

dura fit
BREATHABLE
MICROFIBERS

Durafit microfibers presents a groundbreaking innovation with a recycled corn microfiber.

Frecoma has pioneered an advanced production method that merges organic elements like corn with recycled fibers to yield a superior quality microfiber.

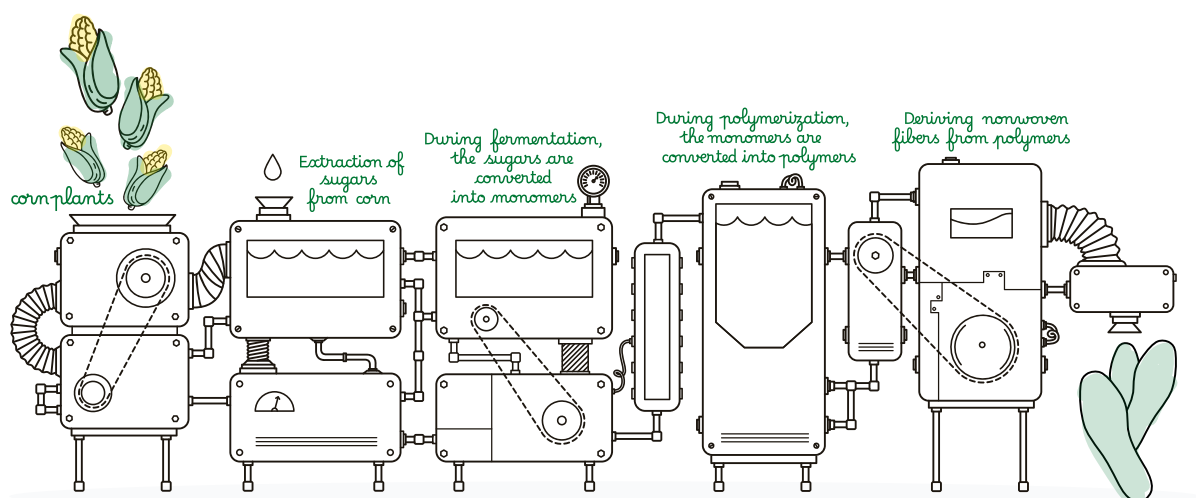
The production process commences with the harvest of corn plants. Glucose is extracted and undergoes sugar fermentation to transition into a monomer. TPA (terephthalic acid) is added to the Bio-PDO (1,3-Propanediol), creating a molecular bond. Subsequently, a polymerization process transforms the monomer into a polymer, from which nonwoven fibers are derived. These fibers are then blended with other recycled materials and treated with a specialized water-based polyurethane solution. This treatment not only imparts a leather-like finish but also significantly enhances the overall mechanical properties of the material.

Thanks to its substantial organic composition, Durafit Biobased comprises up to 30%

biodegradable material, aligning with principles of the circular economy. Leftover materials are collected and recycled to produce new items, effectively reducing our carbon footprint.

Highlights

- Harnesses natural materials
- Demonstrates sustainability
- Vegan-friendly
- Upholds ecological values
- Accomplishes more than 60% reduction in CO₂ emissions
- Achieves a 40% decrease in energy consumption
- Free from substances restricted in Europe
- Fully recyclable
- Including all the characteristics of Durafit Classic.





In semi-perforated and smooth

Moreover, our microfiber is devoid of harmful substances, emphasizing user and environmental safety. The manufacturing process prioritizes the reduction of CO₂ emissions and employs water-based solvents that are free from hazardous agents.

The product adheres to stringent regulations such as CADS and (CE) No. 1907/2006 (REACH), ensuring compliance with health and safety standards. Like all our Durafit microfibers it has an Oeko-Tex Class I certification, making it suitable for even the delicate skin of infants, and is endorsed by the European Vegetarian Union.

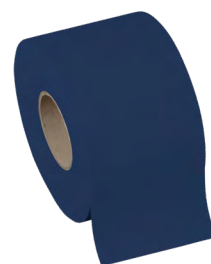
Meeting the rigorous UNE EN 20345 Standard, Durafit Biobased surpasses expectations in tests for tensile strength, abrasion resistance, breathability, and color adhesion post-use. This makes it an ideal choice for crafting durable products like linings, insoles for safety footwear and other high-performance gear.



Black 15



Anthracite 07



Marine 08



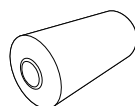
Taupe 12



Linen 32



Stone 10



140 cm x 50 m
Master Roll



11.5 cm x 25 m
Mini Roll



140 x 100 cm
Sheet

Color

Color		Master Roll	Mini Roll	Sheet
Black smooth		40.20.515.14	40.20.715.14	40.20.915.14
Black semi-perforated		40.20.415.14	40.20.815.14	40.20.615.14
Anthracite smooth		40.20.507.14	40.20.707.14	40.20.907.14
Anthracite semi-perforated		40.20.407.14	40.20.807.14	40.20.607.14
Marine smooth		40.20.508.14	40.20.708.14	40.20.908.14
Marine semi-perforated		40.20.408.14	40.20.808.14	40.20.608.14
Taupe smooth		40.20.512.14	40.20.712.14	40.20.912.14
Taupe semi-perforated		40.20.412.14	40.20.812.14	40.20.612.14
Linen smooth		40.20.532.14	40.20.732.14	40.20.932.14
Linen semi-perforated		40.20.432.14	40.20.832.14	40.20.632.14

