

Case Study

Low Grammage for Breathable Film



GRANIC®

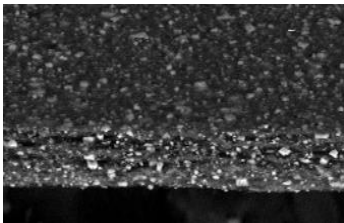
GRANIC® 476 is a specialized mineral masterbatch designed for hygienic film applications.

Its sophisticated design allows for versatile use in both Cast and Blown Film technologies.

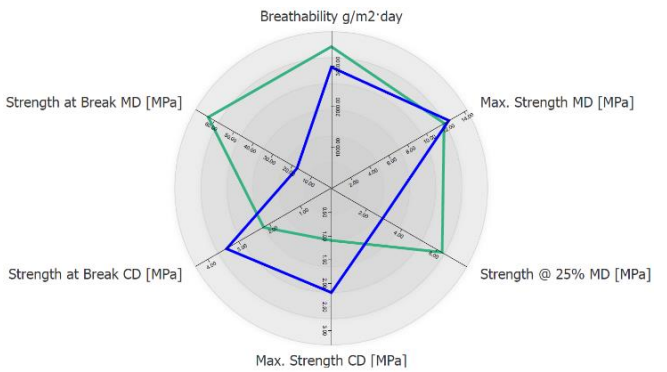
Leveraging a profound understanding of material science and manufacturing processes, our customers can attain their highest-performing, lowest-gsm breathable film to date.

Performance

- Downgauging from 13 gsm to 10 gsm
- Utilizing a 5-layer structure – Distribution: 32 | 12 | 12 | 12 | 32 %
- Incorporating 70% Granic + LLDPE in all layers.
- Selecting LLDPE resin based on the desired level of breathability.



Evolution of Mechanical and Breathability Properties



Reference Market Standard: 13 gsm hygienic breathable Film
Granic Solution: 10 gsm hygienic breathable Film with Granic 476

Key Advantages

- Case-by-case recommendations for optimizing film design performance.
- Opportunities to create a thinner and more sustainable film while preserving the original qualities of the material.
- Ensuring process stability and homogeneity in stretching.
- Maintaining controlled breathability despite the reduced thickness

Sustainability

- Lower Carbon Footprint
- Granic® is Pas 2050 Carbon Footprint certified
- A complete LCA can be performed on Granic®



GCR is committed to the environment

The mineral present in the product may migrate if the manufactured product comes into contact with substances with a pH below 4.5. All the data presented represent average values that are indicative of the production process and should be considered for informational purposes only, not as contractual values.
Note: To maintain the initial product quality, it is essential to follow the instructions described in the corresponding safety data sheet. The information provided in this technical data sheet is for guidance purposes only. The processor is responsible for the processing conditions and the final use of the product and must respect the rights of any third-party patents or other intellectual property rights, including but not limited to copyright, trademarks, and designs.