



Luminy® L040

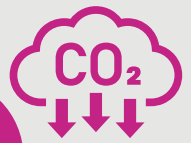
**for sustainable
meltblown filters**

Cleaner air. Greener future

With 99% of the world's population exposed to air pollution levels exceeding WHO guidelines, the need for advanced filtration solutions is more crucial than ever. Meltblown nonwoven materials play a critical role in high-efficiency filtration, capturing fine particles through their ultra-fine fiber structure.

Developed specifically for the meltblown process, Luminy® L040 is an ultra-high-flow PLA grade made from renewable sugarcane, delivering excellent filtration performance while reducing environmental impact.

**80%
lower
carbon footprint**
than polypropylene incl. biogenic carbon

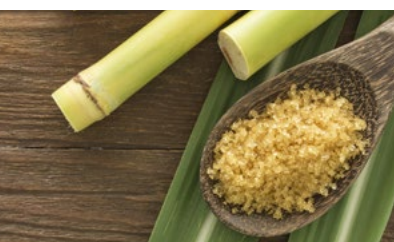


Luminy®
PLA bioplastics

Luminy® L040: Performance meets sustainability

Luminy® L040 achieves filtration efficiencies above 95% with filament diameters as fine as 1 µm, even without electrostatic additives. Its stable charge retention helps maintain long-term filtration performance, while PLA offers a lower carbon footprint and no persistent microplastics.

Mono-material PLA filter designs can improve recyclability and help address the end-of-life challenges associated with traditional multi-material filter constructions.

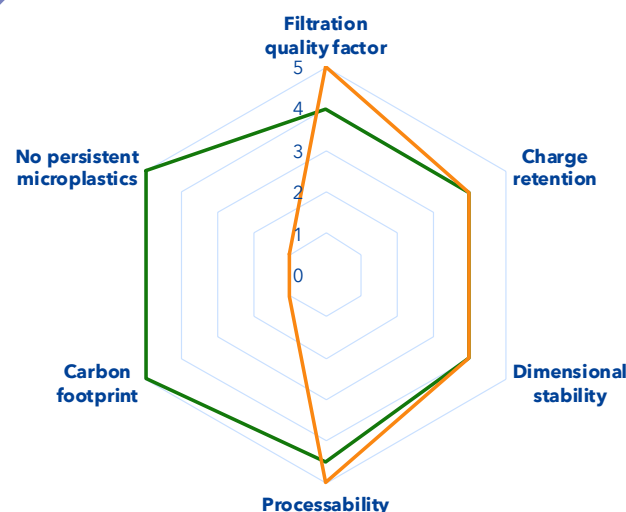


Key benefits

- **Proven performance:** High filtration efficiency, filament diameters down to 1 µm, and stable electrostatic charge retention.
- **Easy processing:** ultra-low viscosity for easy integration into existing meltblown lines.
- **Sustainable by design:** 80%+ lower CO₂ footprint vs PP, no persistent microplastics, and designed for mono-material circularity.

Typical applications

- HVAC filters and air purifiers
- Face masks
- Industrial filtration systems



Meltblown filtration media comparison

■ Luminy® L040 (without additives)
■ PP with additives (current market standard)

5=best fit
1=least fit

