Luminy® FOAM 50F

for extrusion foaming

Eco-conscious foam packaging for every meal

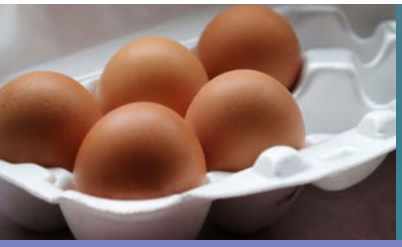
Delivering the performance you expect from foam – now biobased, with a lower carbon footprint, recyclable and compostable.

Extruded foam products remain a popular choice for food packaging because of their light weight, moisture resistance, strong thermal insulation and cost-effectiveness. Growing environmental pressure, tightening regulations and rising concerns about health and safety are accelerating the shift away from traditional XPS foam.

Luminy®
PLA bioplastics

Luminy® FOAM 50F: lightweight, strong and sustainable

Luminy® FOAM 50F – offers a sustainable solution while delivering performance comparable to XPS. Its higher melt strength compared to standard PLA, enables smooth processability and foamability, low product density, and a homogeneous foam structure.




Key benefits

- **Proven performance:** similar density & functionality vs XPS.
- **Easy processing:** XPS drop-in, same production line, same throughput.
- **Sustainability by design:** biobased, industrial compostable and at least 70% CO_2 footprint reduction vs XPS parts
- **Safe for people and planet:** styrene free, PFAS free and no persistent microplastics.
- **Easy handling:** no moisture uptake vs bagasse or cellulose pulp.

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Typical applications

- Protein trays
- Food service ware (bowls, food containers, clamshells)

Typical properties	XPS	XPLA
Product thickness	1-5 mm	
Density	50-100 g/l	≤ 100 g/l
Heat resistance (TF product)	Max. 90°C	Low heat: ~50°C High heat: ~100°C
Skin	Closed, no liquid leakage	
Elastic modulus	~2 MPa	
Rebound resilience	10-30%	~40%
Stress @ 25% compression	0.2 MPa	0.3 MPa
Thermal conductivity @23°C	0.033 W/mK	0.034 W/mK