

MICRO-CELLULAR FOAM TECHNOLOGY

REDUCE YOUR MATERIAL COST



Blown Film

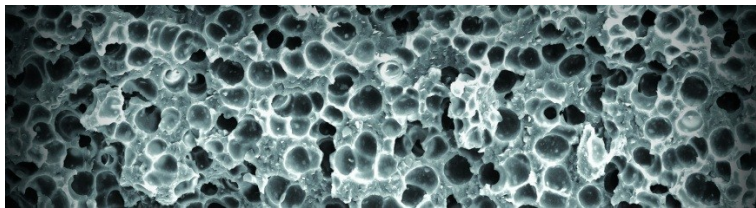
Cast Film

Lamination

Co-Extrusion



Extrusion of Micro Cellular Foam Films



Technology for the conversion of solid products to foam products

Density reductions from a Few percent to Ninety percent

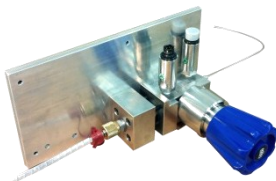
Significantly better Physical properties than other foam processes

Foaming is possible even on Thin Films

Co-Extrusion friendly

A COMPLETE TECHNOLOGY PACKAGE

✓ Equipment



✓ Know how

✓ Process support

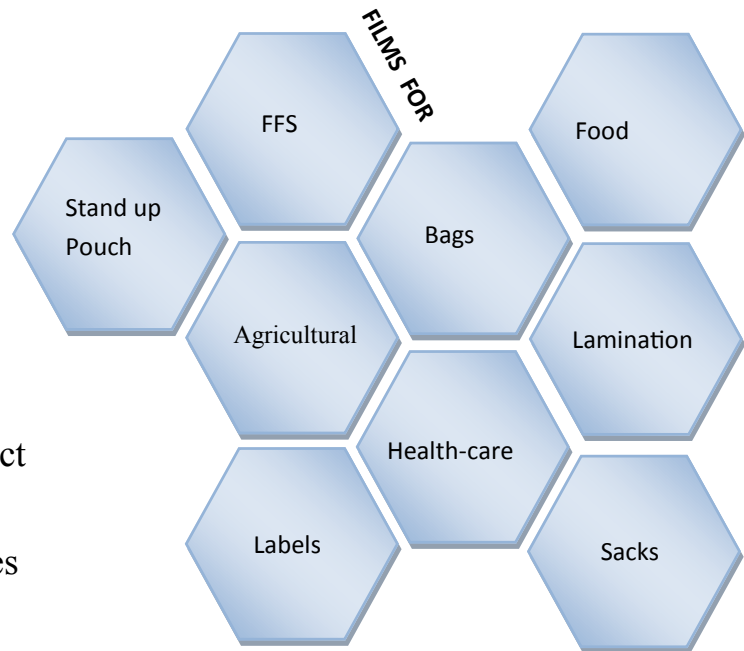


✓ Intellectual property protection

The MuCell process has proven cost savings in film extrusion products

MuCell Benefits

- Reduces quantity of Polymer used
- Lower cost production
- Light weighting of Products
- Best physical properties retention
- No chemicals
- Very low gas costs
- Environmentally friendly gas's used
- Use the same polymers as solid product
- Minimal capital investment
- Easy retrofit to existing Extrusion lines
- Fully recyclable products
- Excellent results with Co-Extrusion
- Lower carbon foot print
- Suitable for Lamination
- Works with most plastics



TECHNOLOGY

MuCell technology is based on the direct injection of atmospheric gas (N₂, CO₂) in its supercritical state. Injection during the supercritical state allows for a single phase gas/polymer solution. Microcellular structure and controlled product density is achieved by the accurate control of gas concentration in combination with the proper release of extrusion pressure. MuCell has applied this technology to most plastic materials and processes. Rigid sheet, low density flexible sheet, film, pipe/tubing, and blow moulding manufacturing processes are also compatible. MuCell's innovative and accessible technology has countless uses in the plastics manufacturing industry.

PP	PA	PLA
LDPE	PS	TPU
HDPE	PET	EVA
Co-Polymers	PVC	
FEP	LLDPE	

WHAT WE DO

MuCell licenses technology for your own unique application and provides complete support until your product is developed and in production. From Intellectual Property rights to process development, MuCell offers support through every step. Our team will work with you through the engineering and design phases to ensure that your screw, barrel, gas injector, or die are working flawlessly. While MuCell does not sell additives, polymers, or finished products, our technology and support will provide you with all that you need for your production.