



Compounding & Extrusion

Lab and Full Scale Production

The Polymers Technology Center, a subsidiary of The Polymers Center, offers **compounding and extrusion** services. From producing trial samples with our versatile lab scale 21mm twin screw extruder to full scale toll production with our 27mm and 50mm Leistritz Maxx machines, we help companies with their unique production demands.

Conveniently located in one building, the Polymers Center and the Polymers Technology Center are able to share capabilities giving our customers options that are not available anywhere else. We can handle your pelletizing and extruding film projects from research and materials testing to pilot or production scale. Once completed, we can stop by our materials science lab for quality control.

Film and Sheet Extrusion

In the extrusion lab at the Polymers Center, we can extrude plastic film and plastic sheet with our 1.5" single screw and 8" wide film die, and we can produce mono-layer blown film samples with our small scale 2" blown film line.

All developmental work done at The Polymers Center is covered by NDAs. We invite you to discuss your project on a confidential basis.



Compounding Services

- **Masterbatch Production Utilizing Twin-Screw Compounding Lines:** Whether you have pellets, powders, fibers, granules, flakes, or liquids, we invite our customers to participate in formulating and compounding your materials into the base resin of your choice.
- **Custom Compounds:** Get consistent, high-quality compounds or masterbatches in small or large volumes.
- **Product Development Trials:** Gain assistance in developing new products and specialty compounds, researching new resins and additive combinations, and optimizing of processes.
- **Low-Shear & High-Shear Blending:** Disperse without degradation.
- **Reactive Extrusion:** Combine chemical reactions (traditionally handled separately) into a single process.
- **Quality Control:** Test your material at our on-site materials science and reduce your time to market.



Extruders & Rates

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|------------------------|-----------------------|
| • 21mm Twin Screw | 10-20 lbs/hr |
| • 27mm Twin Screw | 50-300 lbs/hr |
| • (2) 50mm Twin Screws | 500-1,500 lbs/hr each |
| • 1.5" Single Screw | 10-50 lbs/hr |

Call the Polymers Technology Center or visit our website to learn more:

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