



## Plastics Innovation & Resource Center

### THE PIRC ADVANTAGE

The PIRC at Penn College is home to premier training and project facilities in all major plastics manufacturing processes. Featuring state-of-the-art equipment and renowned consulting and instructional resources, the PIRC is the complete solution for process improvement, applied R&D, product development, and prototyping.

As an extension of Penn College, a hands-on educational focus is at the heart of everything we do. From degree programs to industry partnerships, knowledge and skill development is the foundation of our mission.



### Top 5 requests of plastics manufacturers

- ◇ Custom compound development
- ◇ Manufacturing process optimization
- ◇ Applied R&D assistance
- ◇ Process validation trials
- ◇ Polymer testing

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## MANUFACTURING CHALLENGES —PIRC SOLUTIONS

### **Process optimization is disruptive to our production schedule.**

Continued interruptions in the manufacturing process lead to missed deadlines, inefficient work flow, and dissatisfied customers. With the PIRC as your testing and process validation location, these disadvantages are eliminated allowing, for optimization efforts to be fully realized for maximum financial benefit.

### **We don't have a controlled environment for trials.**

Very few companies have the ability to properly conduct trials of new materials or processes. The testing facilities at the PIRC are specifically designed for controlled experiments and optimal data gathering.

### **We aren't sure if there are better ways to operate.**

Like any company, it's impossible to "know what you don't know." The PIRC team of experts delivers a wealth of experience and knowledge in every significant manufacturing process. From suggestions on layout, equipment, and materials to consultations on process, our team can help ensure your strategy is sound and your investments are well placed.

## SKILLS

## PROCESSES

## RESULTS

**"The PIRC did a terrific job analyzing and solving this complex problem. I highly recommend them."**

When one manufacturer encountered issues with product breakage in the field that was unexplained in testing, the PIRC discovered the root cause through analysis and found an alternative material that permanently solved the problem.

**"Thanks to the PIRC, sales are up and material processing is more effective than ever."**

When their OEM supplier stopped making a special plastic, this company turned to the PIRC. Not only was a sustainable proprietary formulation developed, it was superior in physical attributes and process efficiencies.

[pct.edu/pirc](http://pct.edu/pirc)

Plastics Innovation & Resource Center

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The PIRC is part of Workforce Development

*Penn College operates on a nondiscriminatory basis.*