



## Pentamed® BlisterPro® XCEL Services

Klöckner Pentaplast's (kp) newly expanded Pentamed® BlisterPro® XCEL services allow medical device packaging development to move from design to prototype production in very short time frames. This speed to production also allows multiple iterations of design and material adjustments to take place quickly and easily. What once could have taken months of design, testing and feedback, can now be accomplished in weeks.

kp's Pentamed® BlisterPro® XCEL services help package designers, engineers and technicians explore the effects of tool geometry, film types and process conditions, as well as predict the protective barrier properties of the final package without running line trials. Advanced modeling tools allow blister design to be optimized for stability and material distribution. Pentamed® BlisterPro® XCEL's capabilities are supported by in-house finite element analysis, CNC (computer numerical control) automation and a state-of-the-art blister packaging machine, allowing for rapid prototyping. Once packaging production is underway, Pentamed® BlisterPro® XCEL services can provide manufacturing consulting, on-site troubleshooting and training to increase line efficiency, speed and quality.

At the kp i.center in Charlottesville, Virginia, packaging professionals can join in all stages of the Pentamed® BlisterPro® XCEL process to create the perfect package for their product. Collaborations at the kp i.center can result in personalized packaging prototypes in as little as one week.

Providing essential insights into design and packaging needs, Klöckner Pentaplast's Pentamed® BlisterPro® XCEL services help clear the path to product launch, so your first choice will be the right choice, every time.

### Capabilities:

- 3-D simulations backed by experimental results
- Address blister design/barrier constraints
- CNC (computer numerical control) automated tooling manufacturing
- Manufacturing consulting and on-site troubleshooting
- Materials and production training programs
- Pentamed® BlisterPro® finite element analysis
- Permeability, film-thickness & surface-area prediction of thermoformed cavities
- State-of-the-art blister packaging machine
- Tool designs for optimal thickness distribution
- Value engineering consulting to increase line efficiency, speed and quality

## BlisterPro® XCEL

Moving at the *speed* of your next big idea.

### Applications:

- Evaluation of existing package design and material
- New package design
- Packaging design optimization
- Production process improvement

### Benefits:

- Accelerated speed-to-market
- Cost and time savings across packaging design, testing, and operational phases
- Excellent accuracy of blister MVTR and OTR predictions
- Prevent costly package screening studies, tooling expenditures, production line trials & design pitfalls

© 2015 Klöckner Pentaplast. All rights reserved.

Pentamed® and BlisterPro® are registered trademarks of Klöckner Pentaplast.

The statements contained herein are for informational purposes only and are true and accurate to the best of our scientific and technical knowledge. This information does not constitute a guarantee or warranty, express or implied, nor does it establish a legally valid contractual relationship. It is the customer's responsibility to determine the suitability of this product for the customer's intended use, and Klöckner Pentaplast does not assume any liability for the customer's use of this product or the information contained herein. (09/15)



klöckner pentaplast

[www.kpfilms.com](http://www.kpfilms.com)