



# SHIELDS®

## PERFORMANCE SOLUTIONS



**Shields is one of the leading North American producers of flexible packaging**, with substantial capabilities in blown-film extrusion, printing, bag making and other converting processes. Founded in 1935 in Yakima, WA, Shields combines experience with innovation to create the next generation in packaging.

Now with ten locations, Shields produces custom flexible packaging for industrial applications, retail and consumer packaged goods. We manufacture more than 100 lines of flexible packaging products and ship our products globally.

Our expanded capabilities include custom film and bag, multilayer extrusion, high definition flexographic print, lamination, high barrier bags for foods and sauces, mail and courier bags, reclosable zipper, hot fill and chill packaging, bakery and tortilla packaging, ice bags, roll stock and stretch hooder products.

## ■ Recycling Center - Shawano, WI

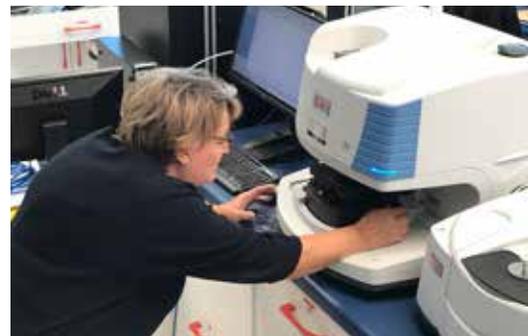
**Shields** has a vested interest in protecting the environment in which we all live, work and play. As a leading manufacturer of blown film packaging we believe that helping to maintain a healthy environment is one of our primary responsibilities. From inception, Shields has been committed to waste reduction, responsible use of energy, and protection of the health of our employees and community. Our goal is to continue to lead the way in terms of sustainability by embracing new technology, fostering supplier relationships, collaborating with local universities, and conducting our business with integrity.



To assist customers looking for a sustainable solution to their packaging needs, a 100,000 sq. ft state-of-art recycling facility is operated in Shawano, Wisconsin - to sort, shred, wash and pelletize post-consumer film scrap. **This process redirects over 13 million lbs. of post-consumer film scrap from the landfills back into reusable industrial packaging.**

## ■ Lab & Technical Services

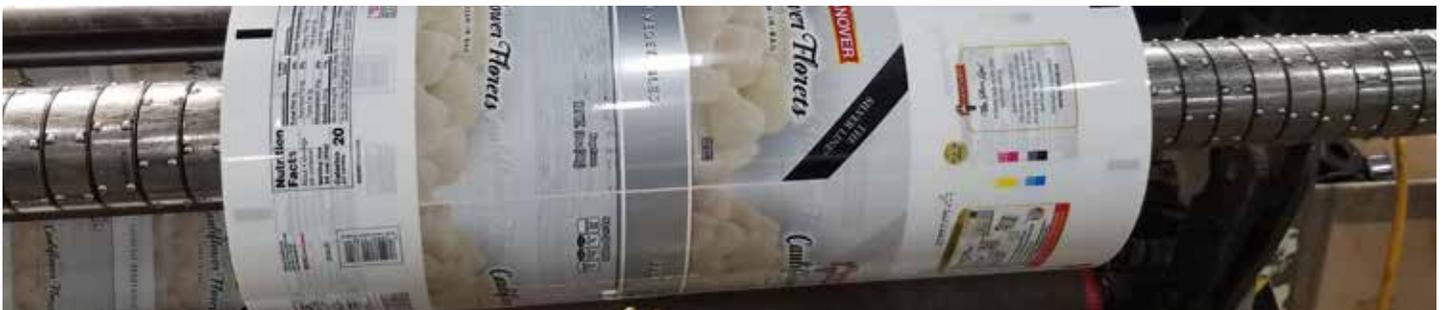
**Shields** incorporates one of the most knowledgeable Technical Service Departments in the industry. The state-of-the-art laboratory performs three functions: testing incoming resins and raw materials, analyzing products as they are run to ensure they meet specifications, and reverse engineering, so the company can duplicate - or improve upon - any samples that are submitted.



What is discovered in the laboratory is put to work in manufacturing.

## ■ Prepress & Platemaking

The **Shields** dedicated in-house graphics and platemaking division adds value by reducing cost and production time while increasing visual dominance in a competitive marketplace. Whether creating an original design or building upon an existing brand or concept, the talented team of prepress professionals are committed to providing the highest quality print graphics in the industry.



# ■ Manufacturing Plants



## 1. Caldwell, OH

- Capabilities: laminated and coated paper/foil and film
- Products include: barrier materials for construction, custom laminated paper/plastic/foil, pharmaceutical packaging
- Certifications: SQF Food Safety Code: Manufacture of Food Packaging, ISO 9000, FSC, SFI and PEFC Forestry Programs

## 2. Chicago, IL (GPP)

- Capabilities: wax coated papers, foil/paper laminations, flexographic and rotogravure printing, slitting and sheeting
- Products include: butter wrap, sandwich wrap, confection twist wrap
- Certifications: SQF Food Safety Code: Manufacture of Food Packaging, FSC, SFI and PEFC Forestry Programs

## 3. Coldwater, OH (IC)

- Capabilities: custom high barrier films, performance coex films, mono and coex tubing, mono and coex single wound sheeting, printing, venting, treating, continuous and loose cut bags, width range: 4" – 160", printing Inline – 1 color random, two sides, venting & treating options
- Products Include: barrier food packaging, stretch hooder, coex mailer films, industrial films, bin liners, pallet covers, shrink bundling, VCI films and bags
- Certifications: SQF Food Safety Code: Manufacture of Food Packaging

## 4. Farmers Branch, TX

- Capabilities: HDPE film, single wound/center fold sheeting, tubing
- Products include: paint masking films, multi-wall bag liners, industrial films
- Certifications: SQF Food Safety Code: Manufacture of Food Packaging

## 5. Garland, TX

- Capabilities: HDPE film, single wound/center fold sheeting, and tubing. 1-6 color flexographic printing
- Products include: bun film, VFFS, insulation encapsulation, industrial films
- Certifications: SQF Food Safety Code: Manufacture of Food Packaging

## 6. luka, MS

- Capabilities: lamination (wet bond only), slitting
- Products include: Isolation facers, wax coated papers
- Certifications: ISO 9001, FSC, SFI and PEFC Forestry Programs

## 7. Orangeville, ON

- Capabilities: film extrusion - sheeting, "U" and "J" film, tubing, flexographic printing, solvent-less lamination, slitting, folding, laser venting, bag converting
- Products include: food, frozen, beverage printed shrink bundling, lawn & garden/horticultural, pet care, barrier films available
- Certifications: SQF Food Safety Code: Manufacture of Food Packaging

## 8. Shawano, WI - Manufacturing

- Capabilities: gauge range from .0007-.006 (some restrictions), width Range – 6-88" Flat, 8-135" gusseted, flat and gusseted bags on a roll or individually cut, centerfold bags, coreless rolls, tubing, sleeves, single wound/double wound/center fold/M-Sheeting/center slit sheeting, tubing, gusseted tubing
- Products include: poly bags, top sheets, bin liners, gaylord liners, barrel liners, combo liners, pallet covers, furniture bags, mattress bags
- Certifications: IMS – Nov. 2021/SQF Food Safety Code: Manufacture of Food Packaging, Post-consumer certification

## 9. Yakima, WA

- Capabilities: food packaging, industrial packaging, shrink packaging, protective packaging, modified atmosphere packaging, laminations
- Products include: custom high barrier films (frozen foods, horticulture, industrial), stretch hood film, mailer and courier bags, security bags
- Certifications: SQF Food Safety Code: Manufacture of Food Packaging, FDA Current Good Manufacturing Practice



# Choice. Innovation. Sustainability.

**Novolex is a leader in packaging choice, innovation and sustainability.** We manufacture products in paper, poly and sustainable materials for the food, health, industrial and retail markets. Our products offer superior performance, convenience, waste reduction, and support food safety and hygiene for the benefit of millions of people who use our products every day.

**Our Performance Solutions segment** serves commercial beverage, produce, dairy and confectionary sectors, as well as industrial applications in agriculture, horticulture, banking and security, construction, sanitation, janitorial and healthcare sectors.



**Contact us for more information on Performance Solutions in Shields, International Converter and General Packaging Products**

**Novolex partners with the organizations below to support the circular economy** through use of recycled content, designing for recycling and composting and labeling for consumer education.

