



# Custom Film & Flexible Packaging

# The "NEW" **SHIELDS**<sup>™</sup>

INTRODUCING - **SHIELDS**<sup>™</sup>  
A NOVOLEX BRAND

## One Source for Custom Flexible Packaging

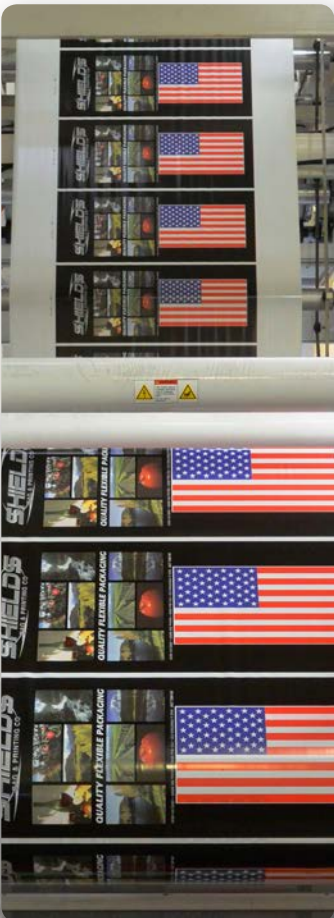
Shields<sup>™</sup> produces custom flexible packaging for industrial, food, beverage, agricultural, building and construction, banking and security, chemicals, energy, and consumer markets.

The "NEW" Shields is a combination of Shields - Yakima; Wisconsin Film & Bag; Hilex - Texas; Accutech Films, and Direct Plastics.

Every organization that makes up the current Shields is a viable, successful, profitable unit; and combined, they offer a comprehensive package to efficiently and effectively support their customers' needs beyond their individual capabilities.

## Capabilities

- Resin Reprocessing
- Lab Analytics
- In-House Graphics
- SQF/IMS, ISO/FSSC Certified
- Film Formulation
- Technical Support
- New Product Development
- Exceptional Customer Service
- Mono-Extrusion LD/HD
- Co-Extrusion 3, 7 & 9 Layer
- Printing Capabilities (1-10 Colors)
- Registered & Random Repeat Printing
- Flexographic Printing
- Water Based & Solvent Inks
- Film Slitting, Folding, Rewinding
- Solventless Adhesive Lamination
- In-line Bag Making
- Roll Bag Conversion
- Side, Bottom & Handle Bags
- Angle Seals
- Star Seals
- Bottom Gusseted
- Pocket Bags
- Wicketed Bags
- Reclosable Zipper Bags





## Lab and 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.*

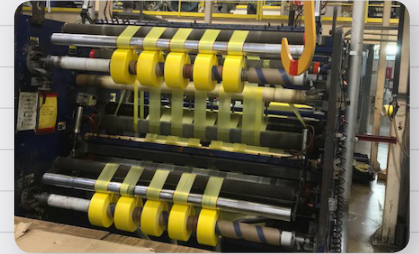
## Prepress and Platemaking

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.

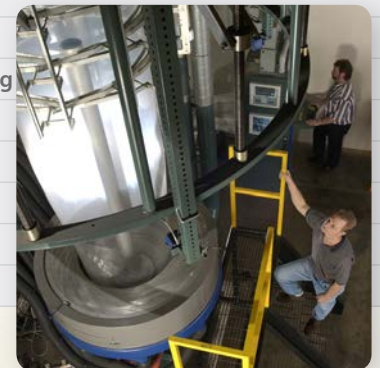


# Markets

INDUSTRIAL	PRODUCT TYPE	APPLICATION
Hooder	Stretch & Shrink	4x4, 4x8
VCI	Bags & Sheeting	Foundry Films, Automotive, Steel, Machined Parts, Corrosion Inhibitor
Masking	Sheeting	Paint Masking
Pallet Cover		
Bags	Box Liners	Furniture/Mattress
	Can Liners	Parts Bags
	Side Weld	Body Bags
	Gusseted	Small Poly Bags
	Side Gusseted	
	Security	Courier/Mailer Bag, Currency Bag, RX Transfer Bag
	Centerfold	
Sheeting	Gaylord	
	Barrel	
	Vented Bags	
	Batch Inclusion	
	Top Sheeting	Insulation
Shrink	Interleaving	Casket Sheeting
	Automated Sheeting	Interleaver
	Encapsulation	Roof Burnoff
	Roll Stock	Fencing
	Bags	Boat Film
	Sheeting	Shingles



FOOD & BEVERAGE	PRODUCT TYPE	APPLICATION
Commodity Bags	Ingredient Bags	Bagel Bags
	Combo Liners	IQF Poultry
	Mono Layer	Dairy/Milk/Protein, Food Processing
Barrier Bags	Barrier Cheese	Cheese
	Co-Ex	Meat
Laminations	Frozen Foods	Vegetable, Seafood, Poultry
	Non Frozen Foods	Granola/Cereal, Bag in the Box
Printed Shrink	Roll Stock	Beer, Water, Malt Liquors



LAWN & GARDEN	PRODUCT TYPE	APPLICATION
Rollstock & Bags	Packaging	Wood Pellet, Fertilizer, Ice Melt, Potting Soil, Pine Straw, Cat Litter
Load Covers	Top Sheets	Fertilizer
	Hooder	Ice Melt
Laminations	Pallet Cover	Bird Seed, Lawn Seed, Pet Bedding/Pet Care
	Roll Stock	Potting Soil
	Bags	Ice Melt, Fertilizer

# Sustainability



## A continuous journey of improvement

**Novolex is a leader in sustainable paper and plastic flexible packaging with a broad portfolio of solutions focused on source reduction, energy and water conservation, and end of life product planning and management.**

Some of the Novolex™ sustainability solutions we bring to our customers include: recycled content plastic and paper products, compostable plastic and paper products, renewable substrates, Novolex's Bag-2-Bag® plastic bag and film recycling program, lower impact substrates such as our EcoCraft® and Dubl Life® lines, and other industry leading innovations that minimize raw materials while maximizing performance.



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.



### STATE OF THE ART RECYCLING FACILITY

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.*



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