



### GOEX

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### Personally from the President

It has been an exciting first half of 2016 for GOEX Corporation. As the plastics market continues to grow, we remain focused on customer needs and staying abreast of developments and trends in the plastics industry.


Let's face it: the demands of our jobs can be filled with challenges. But we understand that meeting customer demands can bring both complexity and reward, and our dedicated employees are ready to take on any challenge that comes their way. We recently integrated Hazard Analysis and Critical Control Point (HACCP), a control-based food safety program, into our existing quality management system. Manufacturers of food contact materials must follow strict production and regulatory requirements, and the implementation of HACCP in our facility allows us to go to market with enhanced rigor and quality, broadening our customer reach.

All of our products, including medical packaging, are manufactured in the same facility, following the same risk controls. From the raw material composition to the finished product, HACCP enhances our existing quality system and is a value-add for all plastics at GOEX. The program further compliments the high-standards of the medical industry and the rapidly changing regulatory environment.

We have always remained dedicated to identifying ways to strengthen our manufacturing process without sacrificing efficiency or productivity. Due to continued Polypropylene growth in the

various markets we serve, we have expanded our operations to include a new extrusion line. We expect the new line to be in commercial scale production in August. With focus on continuous efforts to drive operational efficiencies, we have also invested in a state-of-the-art roll stock slitting machine. Slitting operations are performed in a controlled environment with clean room protocols incorporated into both the machine operators and the production floor. Offering integrated secondary operations allow us to bring value-added services directly to our customers.

Another value-add for our customers is the recent addition to our stock sheeting program. "Quick Pack" customers can choose from several grades of STYREX® PS and the newly added rPETG – all ready for immediate shipment in full skid quantities.


Our value is rooted in providing exceptional customer service and manufacturing excellence. We focus on short lead-times and consistent quality products – all which position us for continued growth and we're ready for it. 



Regards,

Joshua D. Gray  
President & CEO,  
GOEX Corporation

## Out of the Box 6 Fast Facts on Plastics

1. We love our mobile phones! Plastics made possible the commercialization of electronics. Without plastics, most of the electronic products we use today would not have been practical or economic.
2. Plastics have made healthcare simpler and new techniques and prostheses possible. They have reduced contamination, relieved pain and cut medical costs. They have prolonged lives, improved the quality of lives and saved lives.
3. Not too long ago, almost no pharmaceutical packaging had tamper-evident seals. Today, nearly 100 percent of all pharmaceutical packaging does, making it safer for consumer use.
4. Plastic packaging provides a hygienic and safe environment for food and medicine by protecting against contamination.
5. The plastics industry is the third largest manufacturing industry in the United States, providing significantly to the nation's economy.
6. Without plastics, the energy used to produce packaging would double. By using plastics rather than its alternatives, American manufacturers save more than 330 Btu. This is a difference equivalent to 58 million barrels of oil, 325 billion cubic feet of natural gas or 32 billion pounds of coal. 

Source:  
<http://www.plasticsindustry.org/>

## Food Packaging: More on the Implementation of HACCP


The Hazard Analysis and Critical Control Point (HACCP) system is a process in which every step in the manufacture, storage, and distribution of a food product is process mapped and analyzed.

Integrating HACCP into day-to-day operations requires continuous commitment from our employees. This control-based program will help drive dedicated focus when manufacturing food safe plastics for our customers.

“The implementation of HACCP is an all hands on deck approach. We will continually assess our systems; incoming, in-process, and outgoing, and we will be looking for possible causes, controls and mitigation of contamination. There will be administrative, environmental, and manufacturing requirements and enhancements that all employees will need to operationalize,” said Pete Goral, Vice President of Quality Systems at GOEX Corporation.

### Focused Employee Training

One of the program elements includes educating employees and suppliers on the requirements of the food packaging industry. Comprehensive training coupled with management support is essential in ensuring compliance with Good Manufacturing Practices (GMP), HACCP, and workplace safeguards. We will use a systematic and preventative approach to ensure our products are free from chemical, biological and physical contamination, and places a strong emphasis on quality standards and safety practices.

“Our employees are dedicated. HACCP implementation will require changes in day-to-day operations, and I am confident that our workforce will adapt seamlessly. Our employees are ready to embrace the coming changes and commit to a food safety culture,” said Alan Swearingen, Vice President of Manufacturing at GOEX Corporation. 

## Precision Plastic Slitting Operations in a Clean Room Environment




Along with quality products and superior customer service, customization has been GOEX Corporation's foundation for growth and success. To keep up with the demands of the market, the company has invested in a new state-of-the-art slitting machine. The new machine allows for increased productivity not only by the semi-continuous nature of the process but allowing material to run at speeds up to 1500 feet per minute with precision cuts and tight tolerances.

### Precise Converting Process

GOEX's value-added service begins with increasing through-put in the extrusion process. With capabilities to cut master rolls ranging from the widest material at 62" to the narrowest material at 4.25", the slitter has efficiencies built into the entire process, using a laser positioning slit system to identify web widths allows for precision cutting with a  $\pm 1/16$ " tolerance. Consistent edge quality is critical when slitting to customer specifications but also aids in reducing scrap.

Repeatability and consistency are critical objectives in any industry. The slitting machine uses the latest control software to capture and document processes from every job, including specialized instructions and job specific recipes that are uploaded into the machine with the push of a button. This digitized process allows the machine to replicate future converting requests without variations in the outcome.

Integrated secondary operations enable the products to remain in a single location, reducing time to market and eliminating unnecessary costs to GOEX customers. Bridging the manufacture and conversion process allows machine operators to remain close to the product, ensuring operations run smoothly from start to finish. 




## Expanding Our Plastic Stock Sheeting Program

We are pleased to announce another expansion of our plastic stock sheet program. Available products include STYREX® PS and the recent addition of rPETG stock sheet. All products offer unique properties that are ideal for a wide variety of print-on-plastic applications.

Commonly used in the print industry, STYREX® PS is a versatile, economic plastic having excellent ink adhesion. To help optimize print layout, GOEX offers STYREX® PS products in 28"x40", 50"x100" and 60"x120" sizes.

GOEX rPETG is available in 50"x100" sheet size, offering excellent clarity, high-gloss finish, and produced with 2-side protective masking. GOEX rPETG also shares the same uniqueness as STYREX® 525 in that they both contain pre-consumer recycled content which offers a resource-efficient, cost savings solution.

The stock program was designed to provide economical, quality, quick-ship material, helping customers gain a competitive edge with an in-stock and available product offering. Let GOEX help you capitalize on the growing demand for accelerated fulfillment of goods and services. Details about available substrates, characteristics, and sheet sizes are outlined below. Please contact your GOEX Sales Account Manager or Customer Service Representative to help select the right stock product for you. 

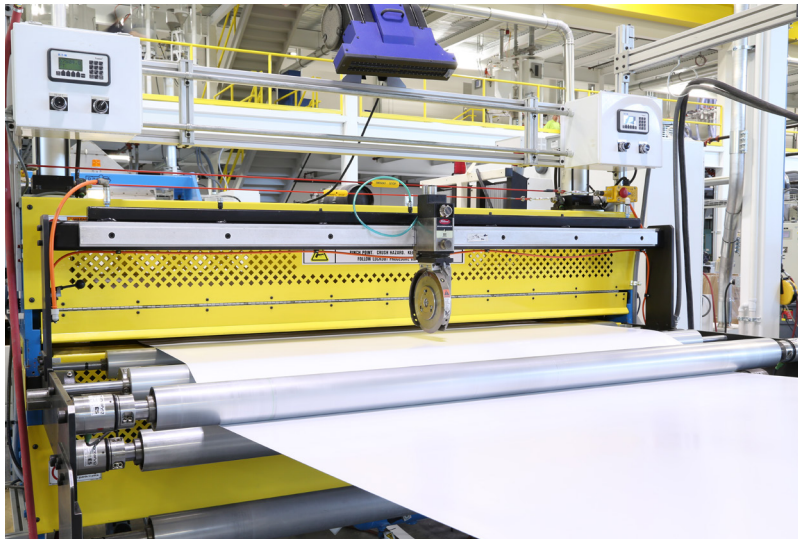
## GOEX Plastic Sheet Stocking Program

STYREX® 320	STYREX® 500	STYREX® 525	rPETG
<b>Characteristics</b> <ul style="list-style-type: none"> <li>• 100% Prime HIPS</li> <li>• 1417 White Opaque</li> <li>• Matte/Matte finish</li> <li>• Corona treated on two sides to a dyne level of 46-52</li> </ul>	<b>Characteristics</b> <ul style="list-style-type: none"> <li>• 100% Prime HIPS</li> <li>• 1417 White</li> <li>• Matte/Matte finish</li> <li>• Corona treated on two sides to a dyne level of 46-52</li> </ul>	<b>Characteristics</b> <ul style="list-style-type: none"> <li>• HIPS*</li> <li>• 1417 White</li> <li>• Matte/Matte finish</li> <li>• Corona treated on two sides to a dyne level of 46-52</li> </ul>	<b>Characteristics</b> <ul style="list-style-type: none"> <li>• PETG*</li> <li>• 231 Clear</li> <li>• Gloss/Gloss finish</li> <li>• Masking on two sides</li> </ul>

### Sheet Size Available

<b>28" x 40" Sheet</b> .015" – 800 Sheets/Skid <i>Double White</i> .020" – 600 Sheets/Skid <i>Double White</i>	<b>50" x 100" Sheet</b> .015" – 693 Sheets/Skid <i>Triple White</i> .020" – 500 Sheets/Skid <i>Dead White</i> .030" – 350 Sheets/Skid <i>Dead White</i> .040" – 250 Sheets/Skid <i>Dead White</i> .060" – 173 Sheets/Skid <i>Dead White</i>	<b>50" x 100" Sheet</b> .030" – 350 Sheets/Skid <i>Dead White</i> .040" – 250 Sheets/Skid <i>Dead White</i> .060" – 173 Sheets/Skid <i>Dead White</i>	<b>50" x 100" Sheet</b> .020" – 435 Sheets/Skid <i>Clear</i> .040" – 215 Sheets/Skid <i>Clear</i> .060" – 173 Sheets/Skid <i>Clear</i>
	<b>60" x 120" Sheet</b> .015" – 361 Sheets/Skid <i>Trans or Triple White</i> .020" – 271 Sheets/Skid <i>Dead White</i> .030" – 180 Sheets/Skid <i>Dead White</i> .040" – 135 Sheets/Skid <i>Dead White</i> .060" – 90 Sheets/Skid <i>Dead White</i>		

\*100% prime surfaces with up to 50% recycled content in the core




## Introducing Our High Efficiency Extrusion Line

Growing customer demand leads to the commissioning of an additional state-of-the-art extrusion line this summer at GOEX Corporation. This multi-extruder line has an annual capacity of 20,000,000 lbs. The Company expects the recently installed system to begin production in August 2016.

To accommodate the growing food and print segments in the plastics market, the new extrusion line has been specifically designed to optimize Polypropylene production. Many customers choose Polypropylene because of its cost advantages and versatility. The material is durable, weather resistant, and has excellent heat deflection, making this substrate ideal for many different end use applications. The new line will go through rigorous tests and sample runs, paying close attention to sheet geometry and finish.

### Continuous Delivery of Quality Products

Before a new extrusion line begins production, management develops standard operating procedures and trains all technicians who will be operating the new line. The training program is comprehensive and collaborative, with management and process technicians working together to determine the most efficient way to run the line. The deep-rooted manufacturing discipline and day-to-day business processes drive productivity with GOEX employees.

The additional capacity facilitates shorter lead times, proving to be important for servicing our existing customers and for future growth. The added extrusion line is just a small piece of the ongoing expansion efforts the Company believes necessary to meet the demands of the marketplace. 




## Medical Packaging Profile

There is more than meets the eye when it comes to the manufacture of medical-grade rigid plastic sheet. GOEX continues to be the leading manufacturer of quality custom plastic roll stock meeting the highest standards and demanding requirements of the medical thermoforming market.

Manufactured in compliance with USP Class VI standards, GOEX offers the most predominate medical-grade materials including PETG 6763, 6763 GLIDEX® PETG and STYREX® High Impact Polystyrene. Depending on the end-use application and customer product preference, MEDEX® 641 (Styrenic Alloy), PEEREX® 51 Polycarbonate, CAROM® PVC, and Acrylic XT-375 materials are also available for use in medical packaging applications.

### High Performance Plastics

One of the most important requirements for any material used in medical packaging is the capability to withstand typical sterilization methods. All medical grade-substrates manufactured by GOEX are compatible with ETO and Gamma sterilization methods, with Polycarbonate also withstanding autoclave sterilization.

GOEX plastics are commonly used in thermoformed packages that contain surgical tools, procedural kits, orthopedic implants, and sterilization trays just to list a few. Material selection is the first and most important step in developing plastic thermoformed medical packaging. Visit [www.goex.com](http://www.goex.com) to explore the quality custom materials available for your medical packaging needs. 



### GOEX

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**Produced by:** Think Patented, Miamisburg, OH

### Production Notes

Stock: GOEX CAROM® 45 PVC with Eco-One™  
Press: Heidelberg XL-106 with Full UV

