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Polypropylene: A Versatile Material Option

As sustainability continues to be a primary consideration for food packaging applications, brands and converters are increasingly exploring alternative material options to help achieve their end goals. In plastic food packaging, these materials often include PET, HDPE and Polypropylene due to their compatibility with curbside recycling programs.

Among these options, Polypropylene (PP) stands out for its versatility. It can withstand higher levels of heat and provide higher levels of protection from moisture transmission. Its low material density offers yield advantages and light-weighting options for potential cost savings. Additionally, different PP resin types can be blended to further customize the material for your specific packaging needs.

Sometimes this versatility can lead to confusion when selecting the proper PP material. GOEX can help. Our CONTOUR® line of food-grade Polypropylene materials offers options. Each is geared to address particular product packaging demands.

CONTOUR® 58 - Homopolymer

Homopolymers are ideal for high-stiffness and high-rigidity applications, making them suitable for products that need to withstand temperatures from refrigeration to microwaving, while also being dishwasher-safe (e.g. takeout containers, food service plates/platters, etc). However, Homopolymers' relatively lower impact strength

means they may not be suitable for very low-temperature environments.

CONTOUR® 59 - Impact Copolymer

Impact Copolymers are specifically designed with a higher impact strength. These enhanced impact properties lend themselves to freezer/low temperature applications and are an important consideration in order to avoid cracking in frozen package drop test scenarios. Impact Copolymers also have lower stiffness properties than Homopolymers and the highest levels of haze, which must be considered during the design stage of your packaging.

CONTOUR® 62 - Random Copolymer

Although Polypropylenes do not generally provide the inherent clarity attributes of materials like PET, higher levels of package clarity are achievable through the use of Random Copolymers. These materials are engineered to enhance optical clarity and minimize haze. Random Copolymers offer the highest clarity among all Polypropylene options and can be further clarified through the addition of food-safe additives/modifiers.

Finding the proper balance between aesthetics, performance, sustainability and cost can be challenging. GOEX can help you understand the needs of your unique application and guide you toward a material solution best tailored to meet your specific packaging requirements.

People are what makes GOEX a success. We are proud to recognize the following individuals and their dedicated teamwork. Those celebrating work anniversaries this quarter are:

5 YEAR ANNIVERSARIES

Dennis Lindsey - *Maintenance Tech II*
Christopher Garetson - *Extrusion Tech II*
Elias Boots - *Slitter Operator*

10 YEAR ANNIVERSARIES

Scott Olson - *Extrusion Operator*
Nortley Isaacs - *Blender Operator Specialist*

20 YEAR ANNIVERSARIES

Rollie Johnson - *Process Specialist I*
Jasen Dewey - *Production Supervisor*
Derek Cooper - *QA Technician*

25 YEAR ANNIVERSARY

John Ferolito - *Extrusion Technician I*

RETIREMENTS

Congratulations to GOEX team members on their recent retirements.



Marc Roe, Warehouse, C Shift
(15 years of service)



Jeff Weber, Process Specialist I, B Shift
(25 years of service)

A Bright, Shiny Future for RPETG

In the quest to replace PVC in the card industry, GOEX developed a new sustainable solution with sass. Our RE•COVER™ CP705 RPETG is produced with up to 100% post-industrial recycled content. It is available with custom surface finishes, maintains a desirable white point and print surface and is receptive to embossing, foil stamping and lamination.

Why laminate?

Film lamination offers great durability and protection. It involves the physical bonding of a plastic-based film to your press sheets through the application of adhesives, heat and pressure. A variety of laminating material can be used, each with its own unique properties and advantages.

GOEX partnered with Chicago Laminating, Inc. in Arlington Heights, IL, to put our RE•COVER™ CP705 RPETG to the test.

Specializing in post press film laminations and coatings, Chicago

Laminating chose seven different polyester films to laminate to our RE•COVER™ CP705 RPETG. These films showcased a variety of enhancements including: Gold Polyester, Holographic Dots, Sparkles and Rainbow, Biodegradable Silver and Brushed Metal. All of our RPETG material processed very well and met or exceeded quality standards.



“Lamination opens up so many possibilities in the card market” said GOEX sales innovation expert Dave Johnson. “GOEX’s wide range of capabilities allows us to target a wider variety of card structures and applications, from hotel key cards, to gift cards, to actual credit cards.

Contact GOEX today to receive samples that show how RE•COVER™ CP705 RPETG can help make your project pop!



Bold Hearts

For nearly a decade, GOEX Corporation has been an integral part of the Bert Blain Memorial Heart Walk in Janesville, WI, raising funds for the American Heart Association. GOEX team members not only participate in the 2K or 5K, but raise funds by donating money to the AHA and participating in our annual Gift Basket Raffle, Bake Sale and Penny Wars.

This year, celebrating the 100th anniversary of AHA, our team’s efforts allowed GOEX to donate more than \$8,000 to the cause.

2024 Walk Chairperson, GOEX’s own HR Manager, Dana Neal, stated “Together we are building a community of lifesavers. Every walker who joined, every dollar donated, means more people trained in lifesaving CPR, more research, and more lifesaving moments for everyone. We walk to



save lives. GOEX is proud to join in AHA’s mission to be a relentless force for a world of longer, healthier lives and hope for everyone, everywhere”.

Thank you to all who took part in this prominent GOEXperience.



RE-COVER™ CP305 PETG: Critical to Medical Packaging and Sustainability

Essential to the medical device packaging industry, plastic materials are chosen for their durability, impact resistance, ease of processing and ability to be sterilized. Finally, a solution exists to responsibly recycle and reprocess such materials, providing true sustainability in medical device packaging.

GOEX is pleased to offer RE-COVER™ CP305 PETG as part of our medical packaging material portfolio. This medical-grade PETG is extruded with virgin cap layers and lot-traceable regrind in the center of the sheet. GOEX developed this product specifically for the medical market not only to address the ever-increasing demand for sustainable material solutions, while still maintaining the reliable performance characteristics of PETG.

MATERIAL ATTRIBUTES OF RE-COVER™ CP305 PETG:

-  High clarity
-  Minimizes virgin pellet consumption
-  Promotes supply chain circularity

Scrap production is an inevitable part of the manufacturing process: both in extrusion and thermoforming. RE-COVER™ CP305 PETG gives purpose to that prime scrap while offering a solution that upholds vital material properties. It also gives the medical device community an opportunity to source PETG, a critically-important material to medical packaging, in a more sustainable manner.

By maintaining full lot-traceability of the regrind, RE-COVER™ CP305 PETG promotes waste reduction and material re-use while complying with critical medical device packaging standards.

GOEX has completed a study, verified by third-party lab testing, that demonstrates that RE-COVER™ CP305 PETG maintains sheet properties similar to those of CP300 PETG being extruded for the first time. These accelerated-aging test results show that neither RE-COVER™ CP305 PETG, nor CP300 PETG, showed a significant loss in key product attributes.

Contact your GOEX Sales Account Manager to learn more about RE-COVER™ CP305 PETG test results. Additional information on our RE-COVER™ family of sustainable products can be found by visiting www.goex.com/products/recover.

Word from Leadership

As we approach the end of another year, we would like to express our sincere gratitude for all your unwavering support.

To our customers, thank you for choosing us as your trusted partner. Your loyalty drives us to continually improve and innovate, ensuring we meet your expectations and deliver quality products that enhance your success.

To our employees, your hard work and dedication are the backbone of our company. Your commitment to excellence and teamwork has been instrumental in overcoming challenges and achieving our goals every day.

Together, we continue to build on a strong foundation, and I am excited about what the future holds. Let's continue to work together to reach new heights. Thank you for being an essential part of our journey.

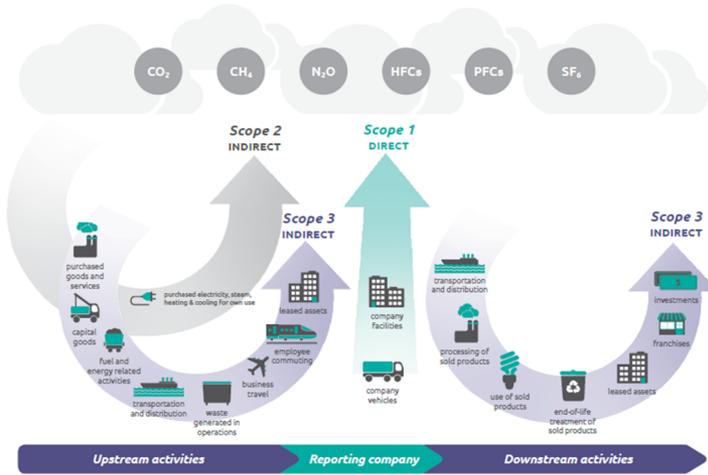
Wishing you all a wonderful holiday season ahead!



Joshua D. Gray
President & CEO
GOEX Corporation

Scope 3 Sustainability: Upstream and Downstream

In our effort to identify further opportunities for Green House Gas (GHG) emission reduction and improve our sustainability practices, GOEX has calculated our Scope 3 emissions. Now, from the beginning to the end of the life of our materials, we have documented the energy necessary to get them through to end users.



Scope 3 GHG emission reporting deals with the indirect emissions that occur in our value chain, both upstream (from our Suppliers) and downstream (from our Customers).

Unlike Scope 1 and 2, Scope 3 encompasses a broader range of activities and is often the largest share of a company's total emissions—taking into account the Cradle to Gate emissions of our raw materials **and** the end-of-life emissions of our products.

All three scopes are important to paint a complete picture of our GHG emissions. In fact, our customers calculate their Scope 1,2 & 3 emissions, which include our GOEX emissions. For this reason, our customers are invested in our carbon reduction plans and we are in theirs.

Calculating all Scopes (1,2 & 3) of our GHG emissions is a valuable tool that supports GOEX's sustainable manufacturing efforts and helps us make informed decisions that benefit our business, our customers, and our environment. Stay tuned for updates on how GOEX is taking stock in future sustainability efforts that benefit us all.

For years, GOEX has calculated and tracked our Scope 1 and 2 GHG emissions. These are our **direct** emissions from our facilities and vehicles, and **indirect** from the electricity we use. Our Scope 1 & 2 emission reduction goals anchor on being more efficient, resulting in using less of those resources. This year, GOEX is on to Scope 3.

Innovation and Industry Engagement



GOEX featured our material line up at tradeshows across the country this season. Spanning a variety of industries, we offer an extensive material line up that allows us to cater a solution to meet our customers' needs. With capabilities to extrude HIPS, PETG, PET, Polypropylene, Polycarbonate and many other specialty resins, we partner with our customers to match the material properties to your end-use application.

At Printing United Expo this fall in Las Vegas, GOEX promoted our RE-COVER™ family of products to our print partners, promoting the reprocessing of recovered material back into our HIPS, PETG, and Polypropylene materials.

At PACK EXPO International in Chicago, billed as the world's largest packaging trade show, GOEX displayed innovative materials for both the Medical and Food Packaging industries. Materials we featured are recyclable, FDA approved, and even better part of a great sustainability story.

As members of the Plastics Industry Association (PIA), GOEX was represented by President, Michael Pregont, at their National Plastics Conference in Houston in October. This gathering provided a comprehensive experience for the entire plastics industry and inspired how we all can take part in the value chain of plastic.

Whether it's designing a sheet made to fit your specific application or promoting the sustainability we all strive for, look for GOEX to help you innovate with material options we are proud to offer in the industries we serve.

Visit GOEX at



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GOEX CORPORATION
HEADQUARTERS & MANUFACTURING
802 US Highway 14 East
Janesville, WI 53545

MANUFACTURING
5191 W 1200 N GOEX Drive
Cedar City, UT 84721

(608) 754-3303 www.goex.com

