



Accelerating Circularity in Flexible Film Applications

CIRCA™ 100% Post-Consumer Recycled Resins

Reimagining and unlocking the value of waste is key to the transition to a circular economy. Our family of low density and linear low density polyethylene post-consumer recycled (PCR) resins is the latest addition to our expanding portfolio of innovations to support flexible film producers' ability to design for circularity. CIRCA™ Recycled Post-Consumer Resins are manufactured with 100% PCR content from flexible film waste collected domestically within North America.

Made in the United States, CIRCA™ Recycled Post-Consumer Resins help producers increase circular content, address sustainability goals, and reduce resource consumption while maintaining processing quality and consistency required for diverse flexible film applications.



Circular Feedstocks Give Plastics New Purpose

Circular feedstocks are those that can be recycled, often over and over again. They lower carbon footprints, reduce the demand for virgin raw materials and help divert plastic waste from landfills.

With innovations like CIRCA™ Recycled Post-Consumer Resins, we are helping brand owners achieve PCR content targets and address the strong demand for PCR-based products, including collation shrink and stretch wrap films, detergent packaging, heavy-duty shipping sacks, and more. In addition, CIRCA™ Recycled Post-Consumer Resins are APR (Association of Plastic Recyclers) certified and SB54 compliant.

Application Spotlight | CIRCA™ Recycled Post-Consumer Resins Offer Full-Circle Benefits for Shrink Wrap Films

Recycled Content 100% PCR material reduces environmental impact and carbon emissions.	Recyclability Mono-material composition helps ensure shrink films are compatible with existing recycling systems, supporting circular packaging designs.	Material Efficiency Thinner shrink films minimize material use without compromising performance, reducing waste and resource consumption.
		



Circular By Design

CIRCA™ Recycled Post-Consumer Resins are engineered for performance with 100% PCR content. They offer reliable processability, exceptional toughness, and excellent printability when incorporated into a wide range of flexible film applications.

CIRCA™ Product Portfolio

Product	CIRCA™ T-LD	CIRCA™ T1-LD	CIRCA™ T-LL	CIRCA™ T1-LL
Description	LDPE-rich PCR	LDPE-rich PCR with reduced contamination	LLDPE-rich PCR	LLDPE-rich PCR with reduced contamination
Density (g/cm ³)	0.918–0.932	0.920–0.932	0.910–0.930	0.910–0.925
Melt Index (g/10 min 190°C/2.16 kg)	0.5–1.5	0.5–1.0	1.5–3.0	2.0–3.0
Recommended Applications	- General purpose film - Logistics shrink film - Poly mailers - T-shirt bags	- General purpose film - Printed shrink film - Printed TTO - Poly mailers	- Stretch wrap - Heavy duty sacks - Protective packaging	- Stretch wrap - Performance liners - Heavy duty sacks - Protective packaging

These are typical properties, not to be construed as specifications.

These products are not approved for preparation of packaging components that will be in direct contact with food, beverages, animal feed, seeds for producing food or animal feed, or other materials that will be utilized to manufacture primary packaging components for these applications. Dow reserves the right to review applications utilizing PCR materials. Customers are requested to complete a PCR Application Screen Form prior to sampling or sales. Please contact Dow representative for details.

Engineering the Future of Sustainable Packaging

Dow is committed to leading the transition to a circular economy with a comprehensive portfolio of sustainable packaging solutions to help brands address their goals and consumer expectations. We collaborate across the value chain with innovations that focus on designing for recyclability, incorporating PCR resins, and developing bio-based alternatives.



At Pack Studios™ located in North America and around the world, our team works closely with customers to accelerate innovation, bringing tailored options to the industry faster and more efficiently for new and existing applications. These facilities offer services like rapid prototyping, design testing, and recyclability assessments. Learn more at packstudios.com.



Operating discipline

We employ consistent collection, sorting, supplier vetting, and final recycling processes designed to minimize contamination in the final product.



Technical capabilities

Tap into Dow's technology and analytical capabilities through Pack Studios™, Dow's global network of specialists, testing facilities, and advanced equipment. We bring deep technical know-how in compounding, converting, and resin design to create solutions tailored to your requirements.



End-to-end quality control

Capitalize on Dow's advanced analytics and toxicology experience to assess potential human health and environmental risks across applications.

Learn More About CIRCA™ Recycled Post-Consumer Resins

For more information, please visit www.dow.com or contact your Dow representative.

Images: 445834312, 199214207, 256102350, 279401741, 1139359711

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