

GreenPE Shrink®

Solid and effective product packaging is important. **Sustainability** efforts are important, too.

SUSTAINABLE PACKAGING SOLUTIONS

GreenPE Shrink® Polyethylene (PE) film provides one of the highest levels of recycled content in the industry at no additional cost compared to virgin shrink film. **GreenPE Shrink®** delivers higher levels of recycled content and opportunities for material reduction over mono-layer shrink films. These characteristics are ideal for meeting sustainability goals and reducing carbon footprints.



PRODUCT CAPABILITIES

- Lay Flat Width: 10 - 88 in.
- Gauge: 1 - 5 mil
- Core: 3 or 6 in. HD
- Max Roll Diameter: 51 in.
- Single Wound

FILM CONSISTENCY

- ✓ EFFICIENT CONVERTING
- ✓ LARGER YIELDS
- ✓ MINIMAL PRINTING ERRORS



Properties:	100% VIRGIN FILM	GreenPE  Shrink® 30% PCR	GreenPE  Shrink® UP TO 50% RECYCLED BLEND
Gauge (mil)	2.00	2.00	2.00
Nominal Yield (sq. in./lb.)	15,015	15,015	15,015
Tensile Strength (psi)	MD 6,240 TD 5,960	MD 3,990 TD 4,015	MD 3,990 TD 4,015
Tensile Strength (lbf)	MD 12.48 TD 11.92	MD 7.98 TD 8.03	MD 7.98 TD 8.03
Elongation at Break %	MD 550 TD 670	MD 470 TD 600	MD 470 TD 600
Elmendorf Tear (g)	MD 200 TD 900	MD 310 TD 1,100	MD 200 TD 1,050
Shrink %	MD 65-75 TD 5-15	MD 65-75 TD 5-15	MD 65-75 TD 5-15
Haze	13%	14%	14%
Gloss (GU)	91	67	60
Dart Drop (g)	225	165	145
Coefficient of Friction	0.25-0.35	0.35-0.45	0.25-0.35



RECYCLABLE



PRINTABLE

*Note: Values are typical and will vary based on film structure.

All specifications are subject to change based on customer's requirements and customizations.

APPLICATIONS

Excellent for products that pack in large, heavy multi-units such as beverage cans, bottles, jars, cleaning supplies, bulk food, pet food, and more. Retail and industrial applications.

SUSTAINABLE, STRONG, AND SPECIALLY ENGINEERED



**Petoskey
Plastics**



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GreenPE Shrink®

HEAVY DUTY POLYETHYLENE SHRINK BUNDLING FILM WITH UP TO 50% RECYCLED CONTENT

Our unique 5-layer technology allows us to combine low-density polyethylene (LDPE) and linear low-density polyethylene (LLDPE) into the film layers for toughness, with high-density polyethylene (HDPE) for tensile strength. This makes **GreenPE Shrink®** bundling film a heavy-duty, high-performing film with superior product protection for a variety of applications.

GreenPE Shrink® is formulated for mechanical, optical, and processing performance. We pride ourselves in providing solutions to improve product performance and add recycled material, all while maintaining a competitive price.

- Our unique 5-layer technology allows for up to 50% recycled content with a minimum of 30% post-consumer recycled content
- Performance is equal to shrink film made with 100% virgin resin
- 1-5 mil thickness offers great puncture and abuse resistance
- Consistent performance across all machine types for excellent machinability
- Tight bullseye closures for easy carry and handling
- Available unprinted or printed

5-LAYER FILM TECHNOLOGY

- Allows for the addition of higher levels of recycled content in the raw materials
- Creates a more consistent product than 3-layer or mono-layer
- Provides an opportunity for raw material reduction

OUTSIDE SKIN LAYER

LLDPE/HDPE
HIGH GLOSS, LOW HAZE

INNER SUB LAYER

PCR/LLDPE
SHRINK

INNER CORE LAYER

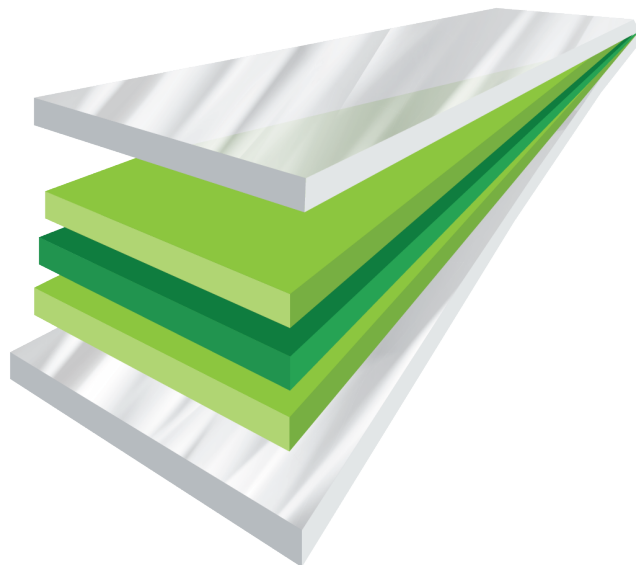
PCR/PIR/LDPE
SUSTAINABILITY

INNER SUB LAYER

PCR/LLDPE
HANDLING

OUTSIDE SKIN LAYER

LLDPE/HDPE
SEALING/STRENGTH



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WHY USE A SUSTAINABLE SHRINK FILM?

IT'S COST EFFICIENT...

Polyethylene shrink bundling film is designed to minimize space and reduce the amount of packaging used. Space saved is money saved in storage and freight, ultimately reducing a product's footprint.


 Utilizing shrink film instead of cardboard boxes can decrease the weight of an item by up to 70%, leading to a reduction in shipping and transportation costs.

 Plastic packaging is extremely lightweight, which cuts fuel consumption from transportation and ultimately reduces greenhouse-gas emissions.


[Source: vox.com](https://www.vox.com)

IT'S CONSUMER-DRIVEN...

Consumer awareness to packaging waste in oceans and landfills is driving change in the marketplace.

 64% of US consumers say food and drink manufacturers should be responsible for environmentally-friendly choices.


[Source: MINTEL PACKAGING TRENDS 2020](https://www.mintel.com/insights/trends/2020/food-and-drink-packaging-trends-2020)

 Over 70% of consumers would pay a premium of 35%, on average, for brands that are sustainable and environmentally-responsible.

[Source: IBM](https://www.ibm.com/press/2019/01/2019-01-08-ibm-research-70-percent-would-pay-premium-for-sustainable-brands)


IT WILL BE REQUIRED BY STATE GOVERNMENTS...

Governments at state and federal levels are responding to public concerns by passing recycling laws and regulating the amount of recycled material in certain plastic packaging.

 American Chemistry Council advocates that all plastic packaging be recyclable or recoverable by 2030.

 Packaging legislation was introduced in over 10 states in 2021.

[Source: Flexible Packaging Association](https://www.flexiblepackagingassociation.com)

 Extended Producer Responsibility (EPR) policies are becoming commonplace, which are designed to hold packaging producers and brand owners, especially those behind single-use or hard-to-recycle plastics, accountable for the costs associated with managing their material in the waste and recycling stream.

GreenPE  Shrink[®]

THE SUSTAINABLE OPTION, WITHOUT THE ADDED COST.



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