intertape polymer group®

i protect

SHRINK FILM

Exlfilm® brand shrink film

Exlfilmplus® brand performance shrink film

i protect

SHRINK FILM

IPG® is a recognized global leader in packaging and protective solutions. We began producing polyolefin shrink film in 1993. For three decades, we have been shrink wrapping products throughout the world with films produced at our manufacturing sites in the US and Portugal.

NORTH AMERICAN MANUFACTURING

In January 2022, IPG expanded its North American shrink film production by acquiring a new film plant in Everetts, NC that allowed us to expand our production capacity and product types. This expansion will help us grow with our North American distributor partners. IPG will continue to invest in people, capital assets and product development to maintain our position and the Exlfilm® line as world leaders in shrink film performance and technology.

The values of a safe work environment, environmental stewardship and good corporate citizenship are deeply embedded in IPG's culture. We live these values every day through our effective resource management, product innovation and our commitment to meet and exceed customer expectations.

IPG SUSTAINABLE ACHIEVEMENTS AND FOOD GRADE CERTIFICATIONS

BEST Plants WINNER 2021

KOSHER CERTIFIED

GFSI Global Food Safety Initiative

BRC PACKAGING CERTIFICATED

ISO 50001:2018 CERTIFIED

ISO 9001

ENERGY STAR AWARD PARTNER OF THE YEAR Sustained Excellence

Operation Clean Sweep

SmartWay

CERTIFIED cradle to cradle SILVER

USA CAN

Recycle if Clean & Dry Store Drop-off PLASTIC WRAP

PLASTIC PLASTIQUE WRAP EMBALLAGE

how2recycle.info

Certifications and achievements are product and manufacturing plant specific.

Exlfilm® brand shrink film

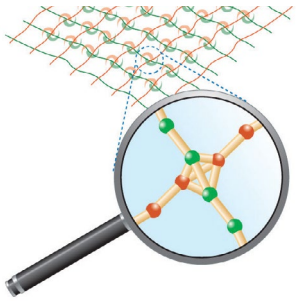
Exlfilm® polyolefin shrink film is engineered to make your packaging look its absolute best, while providing unmatched value, versatility and durability.

Exlfilmplus® brand performance shrink film

ExlfilmPlus® films are crosslinked. The "plus" of crosslinking provides customers with a stronger film capable of working on a wider variety of equipment and sealing systems.

CROSSLINKING TECHNOLOGY

This innovative technique makes ExlfilmPlus Shrink Films one of the toughest and most versatile on the market. This is because the polymer chains are permanently bound into a network, significantly increasing their heat stability and strength. Our films have an inherently greater window of seal and shrink performance at a broader range of temperatures.



- **Prevention of buildup** on wires and knives during sealing
- **Prevention of film burn-through** in heat tunnels
- **Increased film toughness** on the finished package

In Crosslinking Technology, bonds are created where molecules crosslink, resulting in a much stronger film.

MARKETS

- Food Processing
- E-Commerce
- General Manufacturing
- Printing
- Contract Packaging

SHRINK FILM SIZING CHARTS

FILM WIDTH FORMULA

Manual & Semi-Automatic L-Bar Sealer		Automatic L-Bar Sealer	
PACKAGE HEIGHT	**FORMULA**	**PACKAGE HEIGHT**	**FORMULA**
0" – 2.5"	W + H + 2"	0" – 3"	W + H + 4"
2.5" – 4.5"	W + H + 2.5"	3" – 6"	W + H + 4.5"
4.5" +	W + H + 3"	6" +	W + H + 5" to 6"

CUT-OFF FORMULA (BAG LENGTH)

PACKAGE HEIGHT	FORMULA
0" – 2.5"	L + H + 1"
2.5" – 4.5"	L + H + 1.5"
4.5" +	L + H + 2"

PARTS PER ROLL

Roll length (ft) × 12
Bag length (in)

COST PER PART

Cost per roll
Parts per roll

Intertape Polymer Group | 100 Paramount Drive | Suite 300 | Sarasota, FL 34232

SHRINK FILM

ExlfilmPlus GPL, available in 35, 42, and 55 gauge, is the latest high performance, crosslinked polyolefin shrink film from IPG. ExlfilmPlus GPL provides customers superior machinability, clarity and cost savings through higher yield. ExlfilmPlus GPL's unique shrink characteristics make it the ideal choice for both general use and light force applications for printers, bakeries and such.

Exlfilmplus GPL
GLOBAL PERFORMANCE LITE SHRINK FILM

KEY PERFORMANCE FEATURES

- High yield
- Wide operating window
- Minimal shrink force

BENEFITS

- Ultra light gauge
- Lowest cost per package
- Consistently strong seals
- Superior clarity and gloss
- Minimal shrink force
- Excellent machinability
- Crosslinked technology
- Pre-perforated film available
- Available on 3in or 6in core
- Contains post industrial recycled content

CHARACTERISTICS	TEST METHOD	GAUGE					
		35		42		55	
Roll Length – Center Fold		7,500		6,250		4,770	
Roll Length – Single Wound		15,000		12,500		9,540	
Post Industrial Recycled Content (not less than %)		—		10		20	
Low Temperature Usage (°F)		-45°		-45°		-45°	
Shrink Temperature (°F)		240 – 340°		240 – 340°		240 – 340°	
Max. Storage Temp. (°F) 2 years max.		90°		90°		90°	
Haze %	D1003	2.1		2.3		2.4	
Gloss at 20°	D2457	125		135		135	
Coefficient of Friction (film to film), kinetic	D1894	0.22		0.22		0.22	
Oxygen Transmission Rate (cc/100 in²/24 hrs.)	D3985	1550		1,100		1,100	
Water Vapor Transmission Rate (g/100 in²/24 hrs.)	F1249	1.07		0.81		0.74	
		MD	TD	MD	TD	MD	TD
Tensile Strength (PSI)	D882	17,000	17,000	17,000	16,000	17,000	16,000
Elongation at Break (%)	D882	100	110	115	125	130	140
Stiffness Modulus (PSI)	D882	50,000	50,000	40,000	40,000	40,000	40,000
Unrestrained Shrink (%) @ 250°F	D2732	72	72	72	72	72	72
Tear Propagation (g / ply)	D1922	10	11	11	11	13	13

Note: These values are typical and not intended as limiting specifications.
MD = Machine Direction; TD = Tensile Direction

This product is Cradle to Cradle Certified® Silver.
Get more information: **www.itape.com/c2c**

CERTIFIED cradle to cradle SILVER

SHRINK FILM

ExlfilmPlus GPS is a high performance crosslinked polyolefin shrink film. This multilayered film is versatile enough to perform on all sealing systems and shrink tunnels. The premium resin formulation provides our strongest seals ever. ExlfilmPlus GPS offers high shrink force, making it the ideal choice for multipacking and unitizing product.

Exlfilmplus GPS
GLOBAL PERFORMANCE SHRINK FILM

KEY PERFORMANCE FEATURES

- Consistently strong seals
- Wide operating window
- High shrink force

BENEFITS

- Wide window of operation
- Superior sealing performance
- Higher shrink force
- Printable
- FDA compliant
- Excellent machinability
- Crosslinked technology
- Pre-perforated film available
- Available on 3in or 6in core
- Contains post industrial recycled content

CHARACTERISTICS	TEST METHOD	GAUGE											
		45		60		75		100		125		150	
Roll Length – Center Fold		5,830		4,375		3,500		2,625		2,100		1,750	
Roll Length – Single Wound		11,660		8,750		7,000		5,250		4,200		3,500	
Post Industrial Recycled Content (not less than %)		10		20		20		20		20		20	
Low Temperature Usage (°F)		-45°		-45°		-45°		-45°		-45°		-45°	
Shrink Temperature (°F)		240 – 340°		240 – 340°		240 – 340°		240 – 340°		240 – 340°		240 – 340°	
Max. Storage Temp. (°F) 2 years max.		90°		90°		90°		90°		90°		90°	
Haze %	D1003	2.6		2.8		3.0		3.3		4.3		4.5	
Gloss at 20°	D2457	135		135		135		125		125		115	
Coefficient of Friction (film to film), kinetic	D1894	0.2		0.2		0.2		0.2		0.17		0.17	
Oxygen Transmission Rate (cc/100 in²/24 hrs.)	D3985	1,203		874		700		503		400		319	
Water Vapor Transmission Rate (g/100 in²/24 hrs.)	F1249	.88		.45		.39		.29		.24		.20	
		MD	TD	MD	TD	MD	TD	MD	TD	MD	TD	MD	TD
Tensile Strength (PSI)	D882	18,000	18,000	18,000	18,000	18,000	18,000	20,000	20,000	20,000	20,000	15,000	16,000
Elongation at Break (%)	D882	115	125	120	130	130	135	140	150	150	150	160	160
Stiffness Modulus (PSI)	D882	38,000	40,000	40,000	42,000	42,000	44,000	43,000	48,000	44,000	44,000	35,000	45,000
Unrestrained Shrink (%) @ 250°F	D2732	65	65	65	65	65	65	65	65	65	65	63	63
Tear Propagation (g / ply)	D1922	12	12	16	16	18	18	25	25	27	27	30	30

Note: These values are typical and not intended as limiting specifications.
MD = Machine Direction; TD = Tensile Direction

This product is Cradle to Cradle Certified® Silver.
Get more information: **www.itape.com/c2c**

CERTIFIED cradle to cradle SILVER

SHRINK FILM

ExlfilmPlus 701 is a multi-layered all-purpose crosslinked polyolefin shrink film that performs well on manual, semi-automatic, and high speed automatic equipment. ExlfilmPlus 701 exhibits strong seals, quick shrink initiation, and balanced shrink performance.

Exlfilmplus® 701

KEY PERFORMANCE FEATURES

- Maximizes production rates
- Consistently strong seals
- Balanced shrink performance

BENEFITS

- Wide window of operation
- High speed production
- Strong seals
- Printable
- FDA compliant
- Excellent machinability
- Crosslinked technology
- Pre-perforated film available
- Available on 3in or 6in core

CHARACTERISTICS	TEST METHOD	GAUGE													
		45		60		75		100		125		150		200	
Roll Length – Center Fold		5,830		4,375		3,500		2,625		2,100		1,750		1,310	
Roll Length – Single Wound		11,660		8,750		7,000		5,250		4,200		3,500		2,620	
Low Temperature Usage (°F)		-45°		-45°		-45°		-45°		-45°		-45°		-45°	
Shrink Temperature (°F)		240 – 340°		240 – 340°		240 – 340°		240 – 340°		240 – 340°		240 – 340°		240 – 340°	
Max. Storage Temp. (°F) 2 years max.		90°		90°		90°		90°		90°		90°		90°	
Haze %	D1003	4.5		4.5		5.0		6.0		6.0		6.2		6.2	
Gloss at 20°	D2457	100		100		100		100		110		110		115	
Coefficient of Friction (film to film), kinetic	D1894	0.15		0.15		0.15		0.15		0.15		0.15		0.15	
Oxygen Transmission Rate (cc/100 in²/24 hrs.)	D3985	1,203		900		700		500		400		320		250	
Water Vapor Transmission Rate (g/100 in²/24 hrs.)	F1249	0.88		0.45		0.39		0.29		0.24		0.20		0.12	
		MD	TD	MD	TD	MD	TD	MD	TD	MD	TD	MD	TD	MD	TD
Tensile Strength (PSI)	D882	12,500	13,000	12,500	13,000	12,500	13,000	12,500	13,000	12,500	13,000	12,500	13,000	12,500	13,000
Elongation at Break (%)	D882	105	115	105	115	105	115	130	140	130	140	130	140	150	160
Stiffness Modulus (PSI)	D882	25,000	28,000	25,000	28,000	25,000	28,000	25,000	28,000	30,000	30,000	30,000	30,000	30,000	30,000
Unrestrained Shrink (%) @ 250°F	D2732	77	77	77	77	77	77	70	70	70	70	70	70	70	70
Tear Propagation (g / ply)	D1922	12	12	16	16	18	18	24	24	25	25	27	27	35	35

Note: These values are typical and not intended as limiting specifications.
MD = Machine Direction; TD = Tensile Direction

SHRINK FILM

ExlfilmPlus MVP is a lower shrink force crosslinked polyolefin shrink film. This multilayered film is ideal for odd shaped, delicate or thin products. ExlfilmPlus MVP is the perfect choice for difficult to wrap applications and those with poorly maintained equipment.

Exlfilm*plus*® MVP

KEY PERFORMANCE FEATURES

- Quick shrink initiation
- Wide operating window
- Lower shrink force

BENEFITS

- Lower shrink force
- Superior cleanup around corners
- Strong seals
- FDA compliant
- Excellent machinability
- Crosslinked technology
- Pre-perforated film available
- Available on 3in or 6in core

CHARACTERISTICS	TEST METHOD	GAUGE							
		45		60		75		100	
Roll Length – Center Fold		5,830		4,375		3,500		2,625	
Roll Length – Single Wound		11,660		8,750		7,000		5,250	
Low Temperature Usage (°F)		-45°		-45°		-45°		-45°	
Shrink Temperature (°F)		240 – 340°		240 – 340°		240 – 340°		240 – 340°	
Max. Storage Temp. (°F) 2 years max.		90°		90°		90°		90°	
Haze %	D1003	5.4		6.0		7.4		8.4	
Gloss at 20°	D2457	90		90		90		90	
Coefficient of Friction (film to film), kinetic	D1894	0.15		0.15		0.15		0.15	
Oxygen Transmission Rate (cc/100 in²/24 hrs.)	D3985	1,200		900		700		500	
Water Vapor Transmission Rate (g/100 in²/24 hrs.)	F1249	0.88		0.45		0.39		0.29	
		MD	TD	MD	TD	MD	TD	MD	TD
Tensile Strength (PSI)	D882	10,000	12,500	10,000	12,500	10,000	12,500	10,000	12,500
Elongation at Break (%)	D882	105	90	110	90	110	100	115	100
Stiffness Modulus (PSI)	D882	20,000	28,000	20,000	28,000	20,000	28,000	20,000	28,000
Unrestrained Shrink (%) @ 250°F	D2732	78	78	78	78	78	78	75	75
Tear Propagation (g / ply)	D1922	11	11	16	16	18	18	24	24

Note: These values are typical and not intended as limiting specifications.
MD = Machine Direction; TD = Tensile Direction

SHRINK FILM

Exlfilm 307 is a strong, multi-layered polyolefin shrink film with balanced shrink properties. This film is ideally suited for high speed static lap and wire sealing systems, and exhibits superior clarity, gloss, and optics.

Exlfilm 307

KEY PERFORMANCE FEATURES

- High yield
- Wide operating window
- Excellent optics

BENEFITS

- High speed performance
- Excellent machinability
- Superior clarity and gloss
- Excellent static sealing
- Consistently strong seals
- Pre-perforated film available
- Available on 3in or 6in core

CHARACTERISTICS	TEST METHOD	GAUGE							
		50		60		75		100	
Roll Length – Center Fold		5,250		4,375		3,500		2,625	
Roll Length – Single Wound		10,500		8,750		7,000		5,250	
Low Temperature Usage (°F)		-40°		-40°		-40°		-40°	
Shrink Temperature (°F)		240 – 340°		240 – 340°		240 – 340°		240 – 340°	
Max. Storage Temp. (°F) 2 years max.		90°		90°		90°		90°	
Haze %	D1003	3.0		3.2		3.4		3.6	
Gloss at 20°	D2457	125		115		115		115	
Coefficient of Friction (film to film), kinetic	D1894	0.15		0.15		0.15		0.15	
Oxygen Transmission Rate (cc/100 in²/24 hrs.)	D3985	527		431		344		333	
Water Vapor Transmission Rate (g/100 in²/24 hrs.)	F1249	1.91		1.52		1.179		0.93	
		MD	TD	MD	TD	MD	TD	MD	TD
Tensile Strength (PSI)	D882-80	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
Elongation at Break (%)	D882-80	120	120	120	120	140	140	140	140
Stiffness Modulus (PSI)	D882-80	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
Unrestrained Shrink (%) @ 250°F	D2732	62	62	62	62	62	62	62	62
Tear Propagation (g/ply)	D1922	11	11	14	14	20	20	25	25

Note: These values are typical and not intended as limiting specifications.
MD = Machine Direction; TD = Tensile Direction

SHRINK FILM

IPG's new ExlfilmPlus Shield is a polyolefin shrink film designed to conceal the contents of wrapped products. This heavy-duty film can be used to replace expensive corrugated containers.

Exlfilmplus® SHIELD
SHRINK FILM

KEY PERFORMANCE FEATURES

- Fully opaque gray film
- Designed for fulfillment houses and e-commerce shippers
- Fully recyclable

BENEFITS

- Eliminates the corrugated container and void fill when packaging items strong enough to withstand the rigors of shipping
- High speed pack off for improved output rates and lower labor costs
- Crosslinked technology provides consistent sealing and shrinking
- Printable for enhanced marketing opportunities

CHARACTERISTICS	TEST METHOD	GAUGE			
		100		150	
Color		Gray		Gray	
Roll Length – Center Fold		2,625		1,750	
Roll Length – Single Wound		5,250		3,500	
Post Industrial Recycled Content (not less than %)		25		25	
Low Temperature Usage (°F)		-45°		-45°	
Shrink Temperature (°F)		240 - 340°		240 - 340°	
Max. Storage Temp. (°F) 2 years max.		90°		90°	
Transmittance %	D1003	5.5		2.5	
Gloss at 20°	D2457	60		68	
Coefficient of Friction (film to film), kinetic	D1894	0.17		0.12	
Oxygen Transmission Rate (cc/100 in²/24 hrs.)	D3985	421		265	
Water Vapor Transmission Rate (g/100 in²/24 hrs.)	F1249	.32		.19	
		MD	TD	MD	TD
Tensile Strength (PSI)	D882	14,000	14,000	14,000	14,000
Elongation at Break (%)	D882	150	140	155	145
Stiffness Modulus (PSI)	D882	47,000	50,000	35,000	45,000
Unrestrained Shrink (%) @ 250°F	D2732	65	65	63	63
Tear Propagation (g/ply)	D1922	23	23	35	35

GRAY

- Wrapping of confidential items such as insurance policies, annual reports and other sensitive documents and deliveries
- Concealment of high dollar products, eg. high-end auto components, electronics or jewelry
- Packaging of items that can withstand the rigors of shipping without the corrugated container, eg. shoes

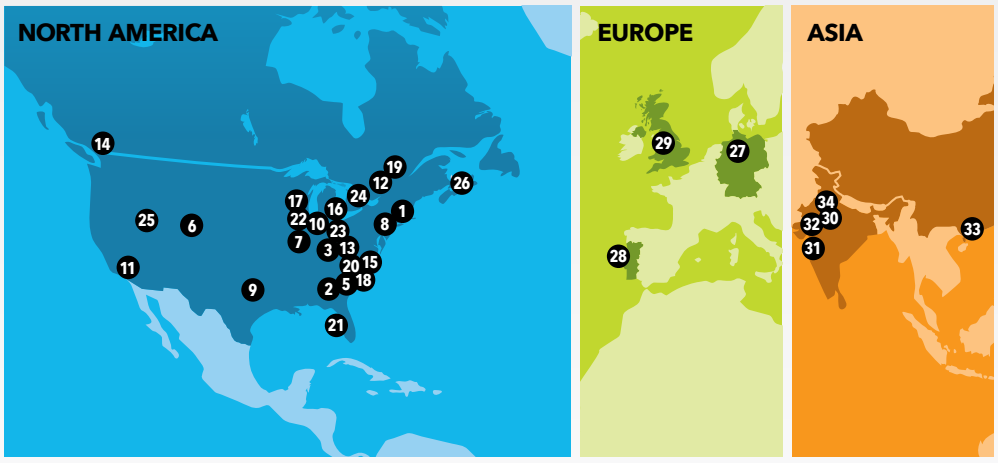
This product is Cradle to Cradle Certified® Silver.
Get more information: **www.itape.com/c2c**

CERTIFIED cradle to cradle SILVER

i protect

CORPORATE PROFILE

Intertape Polymer Group® Inc. is a recognized leader in the development, manufacture and sale of a variety of paper- and film-based pressure sensitive and water-activated tapes, polyethylene and specialized polyolefin films, protective packaging, woven coated fabrics and complementary packaging systems for industrial and retail use. Headquartered in Montreal, Quebec and Sarasota, Florida, the Company employs approximately 4,200 employees with operations in 34 locations, including 22 manufacturing facilities in North America, five in Asia and two in Europe.



NORTH AMERICA

1. Ansonia, CT ■
2. Atlanta, GA ●
3. Bardstown, KY (2) ●
5. Blythewood, SC ●
6. Brighton, CO ●
7. Carbondale, IL ●
8. Carlstadt, NJ ●
9. Carrollton, TX ●
10. Chicago, IL ●
11. Corona, CA ●
12. Cornwall, ON ●
13. Danville, VA ● ▲
14. Delta, BC ●
15. Everetts, NC ●
16. Marysville, MI ●
17. Menasha, WI ●
18. Midland, NC ●
19. Montreal, QC ★
20. Salisbury, NC ●
21. Sarasota, FL ☆
22. Schaumburg, IL ■
23. Springfield, OH ●
24. Toronto, ON ●
25. Tremonton, UT ●
26. Truro, NS ●

EUROPE

27. Flensburg, Germany ▲
28. Porto, Portugal ●
29. Widnes, UK ●

ASIA

30. Chopanki, India ●
31. Daman, India ●
32. Dahej, India ●
33. Jiangmen City, China ●
34. Karoli, India ●

● Manufacturing ■ Machine Assembly ▲ Distribution
★ Corporate Headquarters ☆ Executive Headquarters

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intertape polymer group®