

i protect



 **Exfilmplus**<sup>®</sup>

**SHIELD**

IPG's new Exfilmplus<sup>®</sup> 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.

## FEATURES & BENEFITS

- Fully opaque gray film maintains the confidentiality of sensitive documents and high dollar products
- Eliminates the corrugated container and void fill when packaging items strong enough to withstand the rigors of shipping
- Designed for fulfillment houses and e-commerce shippers delivering product to the consumer
- High speed pack off for improved output rates and lower labor costs
- Crosslinked Technology provides consistent sealing and shrinking
- Printable for enhanced marketing opportunities



VS.



Box and void fill add to the packaging and dim weight costs of each item shipped.

The same product packaged in Exfilmplus<sup>®</sup> SHIELD reduces packaging and dim weight shipping costs.



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## PRODUCT ATTRIBUTES

CHARACTERISTICS	TEST METHOD	REPRESENTATIVE VALUES			
		GRAY		GRAY	
<b>Gauge</b>		150		100	
<b>Roll Length - Center Fold</b>		1,750		2,625	
<b>Roll Length - Single Wound</b>		3,500		5,250	
<b>Low Temperature Usage (°F)</b>		-45°		-45°	
<b>Shrink Temperature (°F)</b>		240 - 340°		240 - 340°	
<b>Max. Storage Temp. (°F) 2 years max.</b>		90°		90°	
<b>Transmittance %</b>	D1003	2.5		5.5	
<b>Gloss at 20°</b>	D2457	68		60	
<b>Coefficient of Friction</b> (film to film), kinetic	D1894	0.12		0.17	
<b>Oxygen Transmission Rate</b> (cc / 100 in <sup>2</sup> / 24 hrs.)	D3985	265		421	
<b>Water Vapor Transmission Rate</b> (g / 100 in <sup>2</sup> / 24 hrs.)	F1249	.19		.32	
		<b>MD</b>	<b>TD</b>	<b>MD</b>	<b>TD</b>
<b>Tensile Strength</b> (PSI)	D882	14,000	14,000	14,000	14,000
<b>Elongation at Break</b> (%)	D882	155	155	150	140
<b>Stiffness Modulus</b> (PSI)	D882	35,000	45,000	47,000	50,000
<b>Unrestrained Shrink (%) @ 250°F</b>	D2732	63	63	65	65
<b>Tear Propagation</b> (g / ply)	D1922	35	35	23	23

These values are typical data and are not intended as limiting specifications.

## PRODUCT APPLICATIONS

*Confidently conceal with Exfilmplus® SHIELD*

- 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



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