

Exfilm® QSL

Quick Shrink Film

Exfilm®QSL is a fast-sealing, ultra-fast shrinking production film. It has an exceptionally high percentage of shrinkage that ensures the film conforms to the package and provides “wrinkle-free” aesthetics. It maximizes production speeds even under the most demanding applications such as calendars and vinyl products.

Exfilm®QSL properties are non-corrosive.



Performance Features Equal Customer Value

- **Quick Shrink Initiation**, fast-sealing and ultra-fast shrinking performance maximizes production speeds even under the most demanding environments.
- **Maximum Hot & Cold “Slip”** ensures easy package insertion and removal from the master carton.
- **Exceptionally High Percentage of Shrinkage** ensures that the film conforms to the package and provides “wrinkle-free” aesthetics.
- High speed applications demand **QSL’s High Speed Performance**.
- **Low Shrink Force** protects your product without crushing or distorting.
- **Reduces Downtime** and keeps your line running.
- Unlike PVC, **QSL is Non-corrosive**, assuring no carbon build-up on sealers.
- **Exceptional Tensile Strength & Tear Resistance** give added durability and toughness to ensure your product is better protected.
- **Complies with Standards** for direct contact with food.

Our Extensive Line of Shrink Film Products

IPG offers a unique line of crosslinked and non-crosslinked polyolefin shrink films, available in a wide choice of gauges, widths and film designs, to ensure you have the best film for your application. These include:

- Exfilmplus® – Performance Shrink Film
- Exfilmplus® LTG – Light Gauge Shrink Film
- Exfilmplus® LTF – Light Force Shrink Film
- Exfilmplus® AF – Anti-Fog Shrink Film
- Exfilm® HSP – High Speed Shrink Film
- EZ Clear PVC – PVC Shrink Film



AVERO
PACKAGING CORPORATION
Flexible Packaging – Machinery & Materials
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Exlfilm[®] QSL

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CHARACTERISTICS	TEST METHOD	REPRESENTATIVE VALUES					
		45		60		75	
Gauge		45		60		75	
Roll Length - Center Fold		5,830		4,375		3,500	
Roll Length - Single Wound		11,660		8,750		7,000	
Low Temperature Usage (F)		-40°		-40°		-40°	
Shrink Temperature (F)		240-340°		240-340°		240-340°	
Max. Storage Temp. (F) 2 yrs. max.		90°		90°		90°	
Haze (%)	D1003	3.5		3.8		4.1	
Gloss at 20°	D2457	110		110		110	
Coefficient of Friction (film to film), kinetic	D1894	0.15		0.15		0.15	
Oxygen Transmission Rate (cc / 100 in2 / 24 hrs.)	D3985	575		431		344	
Water Vapor Transmission Rate (g / 100 in2 / 24 hrs.)	F1249	2.524		2.150		2.024	
		MD	TD	MD	TD	MD	TD
Tensile Strength (PSI)	D882-80	16,000	16,000	16,000	16,000	16,000	16,000
Elongation at Break (%)	D882-80	110	130	110	130	110	130
Stiffness Modulus (PSI)	D882-80	50,000	50,000	50,000	50,000	50,000	50,000
Unrestrained Shrink (%) @250°F	D882-80	55	55	55	55	55	55
Tear Propagation (g/ply)	D1922	8	8	10	10	12	15

Note: These values are typical and not intended as limiting specifications.



Corporate Profile

Intertape Polymer Group Inc. (IPG) is an acknowledged leader in the packaging industry, assembling the broadest and deepest range of products in the industry.

IPG is widely-recognized for its development and manufacture of specialized polyolefin plastic and paper-based packaging products, as well as complementary packaging systems for industrial and retail use. Additionally, IPG is a woven and flexible intermediate bulk container (FIBC) manufacturer. Its Performance Products, including tapes and cloths, are designed for demanding aerospace, automotive and industrial applications.

Established in 1981 and headquartered in Montreal, Quebec and Sarasota/Bradenton, Florida, Intertape employs approximately 2,600 employees with operations in 14 locations, including 10 manufacturing facilities in North America and one in Europe. Intertape Polymer Group Inc. is a publicly traded company with

its common shares listed on the New York Stock Exchange and The Toronto Stock Exchange under the stock symbol "ITP".

Team IPG... Working For You!

IPG's distribution network and company sales offices are conveniently located throughout North America and Europe. You'll find that our dedicated local distributors are ready to supply you with Intertape products and services, assisted by IPG's highly trained sales and service representatives, who offer quick response with the technical expertise you need. These IPG associates, and our distributors, combine to make up an unmatched team that provides you with the best service possible, right in your own back yard.

