

# Our Products Protect Your Products®

## CorTuff™ High-Abuse Film

- Strongest impact strength available – ideal for heavy, odd-shaped products
- Can replace bulkier packaging materials
- Can be used as primary shipping media



## Consultative Services

- Packaging concept development
- Film selection assistance
- Packaging line audits and value analysis



## Opti® Shrink Packaging

- A complete turnkey, cost-effective solution
- Opti® brand shrink film
- Opti® brand Packaging Equipment

## Shanklin® Equipment Systems

- Feasibility studies of proposed equipment
- Custom-built shrink packaging systems
- Equipment installation, training and ongoing technical support

## Xenith™ Shrink Film

**Strength**

**And**

**Soft Shrink**

**Wrapped**

**Into One**



# Xenith™ Shrink Film

A technological breakthrough in flexible shrink packaging materials, Xenith is a revolutionary Cryovac® shrink packaging film with a broad range of applications and far reaching attributes. Xenith delivers a unique combination of strength and soft shrink, combining superior toughness and versatility. Xenith is a new Cryovac® technology platform resulting in a film that is soft enough to wrap products that will easily distort, yet strong enough to wrap irregular shapes and heavier products. All this and the optics and ease of use you have come to expect from Cryovac® shrink films.

## Strength

Xenith is the strongest soft shrink film available

Finally your easily-distorted products can get a level of protection previously available only in high-shrink-force films.

## Soft Shrink

Xenith exerts low shrink force against your product

With its low shrink tension, Xenith will not bend or crush your delicate products.

## Low Temperature Shrink

Xenith shrinks at significantly lower temperatures than other films

You can now wrap your heat sensitive products with less worry. Lower shrink temperatures also means lower utility bills.

## Wide Operating Window

Xenith performs well under variable operating conditions

A wide shrink range makes it easier to get perfect results, even with less than perfect equipment.

## High Free Shrink

Xenith has a very high percentage of "Free Shrink"

High free shrink makes Xenith conform to the contours of your package like no other film. It also makes wrinkles disappear like magic.

## Can Be Re-Shrunk Over and Over Again

Stretch it, twist it, wrinkle it. Another pass through the tunnel fixes it.

Allows you to "fine tune" your package without rewrapping. Fewer rewraps means lower cost.

## Unsurpassed Elastic Recovery

Xenith springs back after handling

Reduces shop wear on your products. Packages stay looking new longer. Better retail appearance equals more sales.



Strongest soft shrink film available.



Low shrink force.



High "Free Shrink".

## Xenith™ Film Specifications

ASTM Test Method	Typical Values			
	X15	X19	X24	
Grade	X15	X19	X24	
Yield (in <sup>2</sup> /lb.)	48000	36000	29000	
Haze (%)	D 1003-95	2.85	2.25	3.05
Gloss (%)	D 2457-90	88.5	89.8	85.8
Clarity (%)	D 1746-92	74.7	79.7	77.6
Instrumented Impact Strength (lbs)	D 3763-95a	14.6	18.8	23.7
Coefficient of Friction (film-to-film, kinetic)	D 1894-95	.15	.16	.14
Water Vapor Transmission Rate (gms/100sq.in./24hrs.; 100%RH, 100° F)	F 1249-90	2.11	1.80	1.45
Oxygen Transmission Rate (cc/m <sup>2</sup> /24hrs. @73° F, 1 atm)	D 3985-95	2700	2500	1920
Minimum Use Temperature		-60° F	-60° F	-60° F

ASTM Test Method	LD* / TD**		LD* / TD**		LD* / TD**			
	2.8	3.7	4.5	5.4	6.7	9.6		
Tear Propagation (gms)	D 1938	2.8	3.7	4.5	5.4	6.7	9.6	
Elongation at Break (%)	D 882-95	110	96	110	97	119	130	
Tensile Strength (psi)	D 882-95	17200	18100	15900	16900	14500	15800	
Modulus of Elasticity (psi @ 73°F)	D 882-95	132000	110000	140000	126000	119000	143000	
Free Shrink (%)	D 2732-83	@180° F	17	19	16	18	16	18
		@200° F	29	35	24	30	26	30
		@220° F	48	41	42	49	46	49
		@240° F	72	72	70	71	69	69
		@260° F	80	76	78	77	78	75
Shrink Tension (psi)	D 2838-95	@200° F	339	306	265	281	282	270
		@220° F	380	335	295	310	318	290
		@240° F	371	326	321	299	346	287
		@260° F	361	274	309	269	332	261

Available in three strength grades, Cryovac® Xenith™ shrink film is the solution for your difficult to wrap products.

\*Longitudinal Direction \*\*Transverse Direction

This information represents our best judgement based on the work done, but the Company assumes no liability whatsoever in connection with the use of information or findings contained herein.