

Xenith™ Shrink Film

Strength

And

Soft Shrink

Wrapped

Into One



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 rewaps 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™ Shrink Film Properties

(Results as of August 13, 2004)

Grade	ASTM Test Method	Typical Values				
		X10	X20	X30	X40	X50
Yield (Sq. In./lb.)		64,500	52,700	38,400	32,200	29,000
Haze %	D 1003-95	5.3	5.3	6.1	6.6	7.1
Gloss %	D 2457-90	78	79	79	78	76
Clarity %	D1746-92	73	76	71	67	64
Instrumented Impact Strength (lbs.)	D 3763-95a	9.7	10.5	16.2	17.6	17.8
Coefficient of Friction (film to film, kinetic)	D 1984-95	0.15	0.15	0.14	0.15	0.16
Water Vapor Transmission Rate (gms/100sq.in./24hrs.; 100%RH, 100 Deg. F)	F 1249-90	1.39	1.1	0.86	0.77	0.73
Oxygen Transmission Rate (cc/m sq/24hrs. @ 73 Deg F, 1 atm)	D 3985-95	6450	4750	3650	2832	2750
Minimum Use Temperature		-60 Deg F	-60 Deg F	-60 Deg F	-60 Deg F	-60 Deg F
		LD*/TD**	LD*/TD**	LD*/TD**	LD*/TD**	LD*/TD**
Elmendorf Tear (g/mil)	D 1922	60/49	84/58	101/76	85/68	84/46
Elongation at Break (%)	D 882-95	130/136	147/133	150/120	140/130	160/160
Tensile Strength (psi)	D 882-95	18/18	16/17	16/17	16/17	17/17
Modulus of Elasticity	D 882-95	94/101	97/95	109/103	112/111	103/103
Free Shrink (%)						
@ 180 Deg F		13/17	12/18	14/17	13/17	11/16
@ 200 Deg F		21/26	20/25	23/31	21/27	16/29
@ 220 Deg F	D 2732-83	33/39	30/40	41/46	37/44	38/44
@ 240 Deg F		66/68	67/71	68/74	66/68	71/72
@ 260 Deg F		77/76	76/77	77/75	77/76	78/77
Shrink Tension (psi)						
@ 180 Deg F		276/341	238/345	261/382	252/334	241/332
@ 200 Deg F	D 2838-95	314/379	273/398	285/435	283/384	296/393
@ 220 Deg F		328/377	306/430	277/434	313/412	345/414
@ 240 Deg F		346/364	310/397	291/436	338/415	351/383

* Longitudinal Direction ** Transverse Direction

This information represents our best judgement based on the work completed. The Company assumes no liability whatsoever with the use of information or findings contained herein. Current data is based on limited samples and is subject to modification prior to final publication.

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



Opti® Shrink Packaging

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

Consultative Services

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



Shanklin® Equipment Systems

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



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R3-3422-KEY-2500-0403