

Xenith³™ Shrink Film

Strength,

Optics,

***Low Temperature,
Soft Shrink***

And Easy Sealing

Wrapped

Into One



Xenith 3™ Shrink Film

Xenith 3™ is the result of breakthrough technology that combines low temperature shrink without compromising strength. It is easy to use, which means it seals easily, shrinks easily and runs well on a broad range of equipment systems. Its unmatched clarity, gloss and sheen ensure that products are clearly visible to consumers and its strength enables products to arrive at the store in the same condition that they are shipped. This toughness permits products to withstand the rigors of retail stocking and consumer handling, while maintaining strong visual appeal.

Strength

Xenith 3 is the strongest soft shrink film available

Your easily-distorted products will get a level of protection previously available only in high-shrink-force films.

Soft Shrink

Xenith 3 exerts low shrink force against your product

With its low shrink tension, Xenith 3 will not bend or crush your delicate products.

Low Temperature Shrink

Xenith 3 shrinks at significantly lower temperatures

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

Wide Operating Window

Xenith 3 performs well in variable operating conditions

A wide shrink range makes it easier to get perfect results, consistently.

High Free Shrink

Xenith 3 has a very high percentage of "Free Shrink"

Xenith 3 conforms to products like a second skin, including contoured and irregular-shaped products.

Easy, Strong Sealing

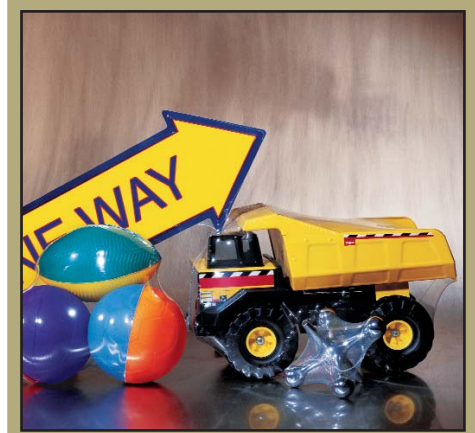
Xenith 3 seals easy and strong at all speeds

Xenith 3 is a cross-linked film with a wide sealing window capable of handling a broad range of wire, knife, band, static or thermal seal mechanisms.

Optics

Xenith 3 is crystal clear with a high-gloss finish

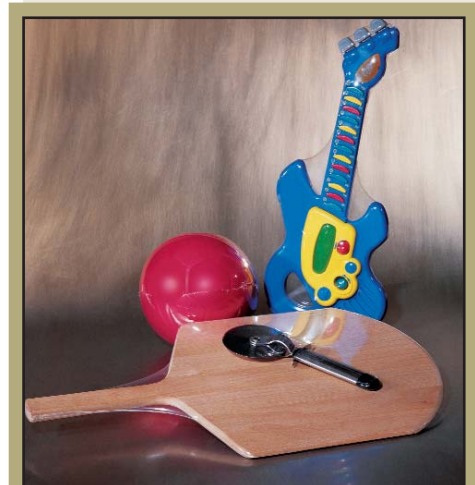
Shelf presentation that grabs the consumer's attention. The clarity and gloss enhance a product's shelf appearance.



Strongest soft shrink film available.



Low shrink force.



High "Free Shrink".

Xenith 3™ Shrink Film

Xenith 3™ Film Specifications

ASTM Test Method

Typical Values

| Grade | | 10 | 20 | 30 | 50 | | | | |
|--|------------|--------|--------|--------|--------|-------|-------|-------|-------|
| Yield (in ² /lb.) | | 64,500 | 52,700 | 38,400 | 29,000 | | | | |
| Haze (%) | D 1003-95 | 2.8 | 3.4 | 3.8 | 3.9 | | | | |
| Gloss (%) | D 2457-90 | 86 | 85 | 86 | 83 | | | | |
| Clarity (%) | D 1746-92 | 81 | 79 | 79 | 76 | | | | |
| Instrumented Impact Strength (lbs) | D 3763-95a | 7.5 | 9.4 | 10.2 | 14.2 | | | | |
| Coefficient of Friction (film-to-film, kinetic) | D 1984-95 | 0.3 | 0.3 | 0.3 | 0.3 | | | | |
| Water Vapor Transmission Rate (gms/100sq.in./24hrs.; 100%RH, 100° F) | F 1249-90 | 1.61 | 1.42 | 1.13 | 0.73 | | | | |
| Oxygen Transmission Rate (cc/m ² /24hrs. @73° F, 1 atm) | D 3985-95 | 6944 | 6072 | 5129 | 3192 | | | | |
| Minimum Use Temperature | | -60° F | -60° F | -60° F | -60° F | | | | |
| | | | | | | | | | |
| | | LD* | TD** | LD* | TD** | LD* | TD** | LD* | TD** |
| Elmendorf Tear (g/mil) | D 1922 | 31 | 27 | 34 | 30 | 64 | 56 | 94 | 128 |
| Elongation at Break (%) | D 882-95 | 106.3 | 129.7 | 120.0 | 131.3 | 120.0 | 135.0 | 150.0 | 150.0 |
| Tensile Strength (psi) | D 882-95 | 15.2 | 14.5 | 14.6 | 15.7 | 14.1 | 15.8 | 13.7 | 13.9 |
| Modulus of Elasticity (psi @ 73°F) | D 882-95 | 107.7 | 107.7 | 94.3 | 93.3 | 103.1 | 98.5 | 93.2 | 88.8 |
| Free Shrink (%) | | | | | | | | | |
| @180° F | | 13 | 17 | 12 | 16 | 12 | 14 | 9 | 15 |
| @200° F | | 21 | 25 | 20 | 28 | 19 | 26 | 21 | 28 |
| @220° F | D 2732-83 | 44 | 52 | 42 | 49 | 41 | 48 | 40 | 49 |
| @240° F | | 73 | 71 | 70 | 71 | 71 | 72 | 72 | 74 |
| @260° F | | 79 | 77 | 77 | 76 | 77 | 77 | 76 | 78 |
| Shrink Tension (psi) | | | | | | | | | |
| @180° F | | 268 | 335 | 278 | 333 | 209 | 263 | 183 | 283 |
| @200° F | D 2838-95 | 312 | 392 | 274 | 351 | 264 | 317 | 202 | 329 |
| @220° F | | 352 | 393 | 309 | 376 | 309 | 342 | 268 | 349 |
| @240° F | | 378 | 348 | 334 | 363 | 335 | 354 | 273 | 348 |
| @260° F | | 311 | 275 | 287 | 278 | 302 | 290 | 291 | 300 |

Available in four strength grades, Cryovac® Xenith 3™ 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 completed. The Company assumes no liability whatsoever with the use of information or findings contained herein. Current information is based on sampling and is subject to modification with additional data.

Our Products Protect Your Products®

CorTuff™ High-Abuse Film

- Strongest shrink film 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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