

Opti[®] 110 Shrink Film

The Perfect Combination of Strength and Value

Multi-Purpose

Strength and Value

Superior Optics

FDA Approved

Easy-To-Use

Wrapped Into One



- ◆ **Superior optics** — Excellent gloss and sparkle with low haze and crystal clear clarity for enhanced appearance and product appeal; barcodes easily scanned, text and graphics intensified
- ◆ **Tough** — Co-extruded multi-layer construction offers ideal product protection against tampering and pilferage; maintains product integrity through the rigors of distribution and retail handling
- ◆ **Recyclable** — Totally recyclable and non-corrosive; no fume emissions
- ◆ **Versatile** — Ideal for packaging a variety of products from food and pharmaceuticals to stationery and games; may be used for packaging an infinite variety of sizes and shapes
- ◆ **Easy-To-Use** — Minimizes “dog ears”; features low shrink temperature and short dwell time; works on most types of equipment from manual L-sealers to automated high-speed wrappers
- ◆ **FDA Approved** — Certificates available upon request

PROPERTIES

Opti® 110 Singlewound Properties	ASTM Test Method	Typical Values			
		50	60	75	100
Gauge	D374				
Minimum Use Temperature		-50° F	-50° F	-50° F	-50° F
Maximum Storage Temperature (2-yr max)		80° F	80° F	80° F	80° F
Shrink Air Temperature (F)		240° - 360°	240° - 360°	240° - 360°	240° - 360°
Instrumented Impact					
Peak Load (lbs.)	D3763	16.6	12	16	22
Optical Properties					
Haze (%)	D1003	2.6	2.3	2.6	2.9
Gloss (% @ 45° F)	D2457	86	95	94	96
Coefficient of Friction					
(Kinetic)	D1894	0.15	0.15	0.16	0.012
		LD/TD	LD/TD	LD/TD	LD/TD
Tensile Strength (x 1000 psi)	D882	18.5/17	18.5/17	17/16	15/15.5
Elongation at Break (%)	D882	86/110	110/100	125/120	140/140
Modulus of Elasticity (psi @ 73° F)	D882 (A)	100,000	100,000	100,000	100,000
Tear Propagation (gms)	D1938	5.6/6.1	8/8	10/10	14/14
Shrink Tension (psi)	D2838				
200° F		400/440	400/440	400/440	400/440
220° F		430/520	430/520	430/520	430/520
240° F		470/570	470/570	470/570	470/570
260° F		570/550	570/550	570/550	570/550
Free Shrink (%)	D2732				
200° F		13/14	13/14	13/14	13/14
220° F		20/25	20/25	20/25	20/25
240° F		40/50	40/50	40/50	40/50
260° F		50/60	50/60	50/60	50/60

LD = Longitudinal Direction / TD = Transverse Direction

This information represents our best judgment based on the work done, but the company assumes no liability whatsoever in connection with the use of information or findings contained herein. Opti® 110 complies with the requirements of the Federal Food, Drug and Cosmetics Act, as amended, for the packaging of all foods, with the exception of high alcoholic substances, at temperatures of 65°C and below.

Distributed by:



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