

## Opti<sup>®</sup> 200 Shrink Film

Cross-Linked For Superior Toughness and Integrity

**High Performance**  
**Superior Optics**  
**Stronger Seals**  
**Easy-To-Use**

**Wrapped**  
**Into One**



- ◆ **Cross-Linked** — Superior strength and integrity compared to thicker, non-cross-linked competitive films; perfect for a wide range of today's consumer products
- ◆ **Outstanding Heat and Scorch Resistance** — Made possible by a wider processing window
- ◆ **Longer Footage Rolls** — Increases productivity; requires fewer roll changeovers
- ◆ **High Free Shrink** — Very user-friendly and easy-to-use
- ◆ **Superior Optics** — Provides transparent clarity, gloss and sparkle; enhances product appearance
- ◆ **Excellent Machinability** — Superior sealability on a wide range of thermal, trim, and electrostatic sealing systems
- ◆ **Multiple Markets** — Includes toys and games, housewares and hardware, software, DVDs, office and art supplies, multi-packaged food products

# PROPERTIES

Opti® 200 Shrink Film

	ASTM Test Method	Typical Values				
		45 (S)	52	60 (D)	75 (H)	100 (U)
Gauge (Grade)		45 (S)	52	60 (D)	75 (H)	100 (U)
Minimum Use Temperature		-60° F	-60° F	-60° F	-60° F	-60° F
Maximum Storage Temperature (2-yr max.)		90° F	90° F	90° F	90° F	90° F
Shrink Air Temperature (F)		250° - 350°	250° - 350°	250° - 350°	250° - 350°	250° - 350°
Density @ 23° C (g/cc)	D1505	0.931	0.931	0.931	0.931	0.931
Haze %	D1003	3.0	3.5	3.9	3.9	3.8
Gloss %	D2457	88	88	87	89	90
Instrumented Impact Strength (lbs)	D3763	12	14	19	24.3	29
Coefficient of Friction (film-to-film, kinetic)	D1894	0.3	0.3	0.3	0.3	0.3
Water Vapor Transmission Rate (gms/100 sq. in./24 hrs.)	F1249	1.6	2.0	1.5	1.2	1.1
Oxygen Transmission Rate (cc/m <sup>2</sup> /24 hrs.)	D3985	10200	9000	9000	7200	6150
		LD/TD	LD/TD	LD/TD	LD/TD	LD/TD
Tensile Strength (psi)	D882	20000/20000	18000/19000	18000/19000	18000/19000	18000/19000
Elongation at Break (%)	D882	110/110	90/120	90/140	90/140	120/130
Modulus of Elasticity (psi @ 73°F)	D882 (A)	80000/85000	70000/71000	70000/71000	70000/71000	70000/71000
Tear Propagation (gms)	D1938	2.8/3.8	3.5/3.5	4.0/5.2	5.3/6.9	6.2/9.4
Shrink Tension (psi)	D2838					
@ 200° F		251/503	290/520	290/520	290/520	290/520
@ 220° F		360/579	374/575	374/575	374/575	374/575
@ 240° F		428/650	427/592	427/592	427/592	427/592
@ 260° F		463/528	449/592	449/592	449/592	449/592
Free Shrink (%)	D2732					
@ 200° F		10/14	12/19	12/19	12/19	12/19
@ 220° F		17/25	24/34	24/34	24/34	24/34
@ 240° F		38/47	56/59	56/59	56/59	56/59
@ 260° F		80/78	80/78	80/78	80/78	80/78
@ 280° F		81/79	81/79	81/79	81/79	81/79

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® 200 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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