



## **Opti® 200**

***It's strong. It's cost effective.  
And it has superior shelf appeal.  
It's Opti® 200.***

### **Strength and Appearance**

Opti® Shrink Films offers new Opti® 200, a cross-linked film that has increased strength and integrity compared to non-cross-linked competitive films. Cross-linking is an advanced technological process that bonds the polymers together resulting in a tougher material with superior optics, stronger seals, and excellent shrink characteristics.

### **Seeing is Believing**

With superior optics, at times Opti 200 is barely visible to the naked eye. And it's snug fit helps eliminate unsightly dog ears.

### **Reduce Costs, Reduce Waste**

By converting to Opti 200, you can reduce total packaging costs and waste without sacrificing film strength. Since it comes in roll lengths up to twice that of standard films, there are fewer changeovers and less downtime, resulting in lower labor costs and increased productivity. Longer roll lengths also make more efficient use of warehouse and storage space.



# Film Highlights

## Material

Co-extruded, multi-layered, cross-linked polyolefin with excellent machinability, seal strength and durability.

## Appearance

Superior optics provide transparent clarity, gloss and sparkle.

## Toughness

Offers the performance characteristics lacking in non-cross-linked films. Perfect for a wide range of today's consumer products.

## Machinability

Superior sealability on a wide range of thermal, trim and electrostatic sealing systems.

## Applications

Toys and games, housewares and hardware, software, video cassettes, office and art supplies, multi-packaged food products and other items that require multi-packing.

## Opti® 200 Properties



	ASTM Test Method	Typical Values			
		S Grade		D Grade	
Gauge		S Grade		D Grade	
Minimum Use Temperature		-60° F		-60° F	
Maximum Storage Temperature (2 yr. max)		90° F		90° F	
Shrink Air Temperature		250° - 350° F		250° - 350° F	
Density @23°C (g/cc)	D1505	.931		.931	
Haze (%)	D1003	3.0		3.2	
Gloss (%)	D2457	88		86.5	
Instrumented Impact Strength (lbs)	D3763	12		15	
Coefficient of Friction (film-to-film, kinetic)	D1894	0.30		0.26	
Water Vapor Transmission Rate (gms/100sq. In./24hrs.)	F1249	1.6		1.5	
Oxygen Transmission Rate (cc/m <sup>2</sup> /24hrs.)	D3985	10200		9000	
		LD* / TD**		LD* / TD**	
Tensile Strength (psi)	D882	20000	20000	20000	20000
Elongation at Break (%)	D882	110	110	100	100
Modulus of Elasticity (psi @ 73°F)	D882 (method A)	80000	85000	80000	85000
Tear Propagation (gms)	D1938	2.8	3.8	3.4	3.9
Free Shrink (%)	D2732				
	@200° F	10	14	10	14
	@220° F	17	25	16	25
	@240° F	38	47	39	47
	@260° F	80	78	80	78
	@280° F	81	79	82	79
Shrink Tension (psi)	D2838				
	@200° F	251	503	290	520
	@220° F	360	579	374	575
	@240° F	428	650	427	592
	@260° F	463	528	449	592

\*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. 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, at temperatures of 65°C and below.

Opti®shrink wrapping equipment is available for a turnkey solution for your packaging requirements.



**Sealed Air**  
Shrink Packaging Division

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