

Opti[®] 210 Shrink Film

A Strong, Flexible Film That's Easy on Your Products...and Even Easier on *You!*



A Tough Film for Those “Sensitive” Challenges

Sealed Air’s Opti 210 is all about making your life easier. A multi-layered, electronically cross-linked polyolefin with low shrink tension and forgiving nature, Opti 210 is the perfect film for those soft, easy-to-bend products that can be difficult to wrap.

Opti 210 Features and Benefits

- **Consistently excellent appearance**—Superior optics for clarity and gloss; high shrink percentage ensures perfectly conforming packages for optimum retail presentation
- **Tough**—Engineered to provide exceptional seal strength for maximum product protection
- **Remarkably versatile**—Shrinks to the contours of the package under less than perfect tunnel conditions; seals at a lower range of temperatures on a variety of equipment systems
- **Product-sensitive**—Low shrink force keeps softer items from buckling or becoming distorted
- **Non-corrosive**—Leaves no carbon buildup on sealing wires or other equipment parts
- **Multiple applications**—Perfect for wrapping stationery, gift-wrap and other paper products; snack foods and candy; products in lightweight chipboard trays or containers; linens

Opti 210 Technical Data

Opti 210 Properties	ASTM Test Method	Typical Values	
		S Grade	D Grade
Grade		S Grade	D Grade
Yield (sq. in. per pound)		49,000	39,000
Haze (%)	D 1003	4.2	5.9
Gloss (%)	D 2457	80	80
Clarity (%)	D 1746	80	80
Instrumented impact strength (lbs)	D 3763	8.9	11.1
Coefficient of Friction (film-to-film; kinetic)	D 1894	0.23	0.25
Water vapor transmission rate (gms/100 sq. in./24 hrs.); 100% RH, 100° F	F 1249	2.1	1.7
Oxygen transmission rate (cc/m ² /24 hrs. @ 73° F, 1 atm)	D 3985	13,800	12,000
Tear propagation (gms) LD*/TD**	D 1938	18/11	25/14
Elongation at break (%) LD*/TD**	D 882	100/110	100/110
Minimum use temperature		-60° F	-60° F
Maximum storage temperature		90° F	90° F
		LD*	TD**
Tensile strength (psi)	D 882	11,000	9,500
Modulus of elasticity (psi @ 73° F)	D 882	26,000	29,000
Free shrink (%)	D 2732		
@ 180° F		12	15
@ 200° F		25	30
@ 220° F		44	44
@ 240° F		68	66
@ 260° F		80	77
Shrink tension (psi)	D 2838		
@ 200° F		250	260
@ 220° F		270	270
@ 240° F		275	280
@ 260° F		260	260

*Longitudinal direction **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 210 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.



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