

Opti[®] 400 Shrink Film

Opti[®] 400 is a suitable film for a great variety of applications. This Sealed Air Opti[®] Shrink Film offers good pack presentation thanks to excellent optic, high shrink and good seal strength. The good abuse resistance ensures your products protection. It is a film easy to use and is the preferred option for L- and Side-seal machines.

❑ **APPLICATIONS:** Common applications are household and personal care products, softwares, automotive spare parts, frames, paper products, sweets, cookies, etc...

❑ **MACHINES:** Sealed Air Opti[®] 400 runs well on all types of shrink-wrap machines with different sealing systems.

❑ **LEGISLATIVE AND SAFETY INFORMATION:**

Sealed Air Opti[®] 400 is suitable for food contact applications

Sealed Air Opti[®] 400 does not generate harmful, corrosive fumes



	Typical Values			Test Method
FILM DATA				
Thickness (Micron)	13	15	19	ASTM D-374 (C)
Density (g/cm ³)	0.915			
Yield (m ² /Kg)	87.4	72.9	57.5	
Length: Single wound (m)	3200	2667	2134	
Centrefolded (m)	1600	1333	1067	
Width: Single wound (mm)	150-1500			
Centrefolded (mm)	150-750			
Core diameter (mm)	76			
FILM PROPERTIES				
Tensile strength (Kg/cm ²) LD*/TD**	1150/1150	1050/1050		ASTM D-882
Modulus (Kg/cm ²)	4500/4500	4500/4500		ASTM D-882
Elongation (%)	100/100	100/100		ASTM D-882
Tear propagation (gr)	3.5	4.5	7.0	ASTM 1938 (B)
Kinetic coef. of friction (film-film)	0.15	0.15	0.15	ASTM D-1894 (B)
SEALING				
Trim seal strength (g/25mm)	2100	2600	3000	COV-E234
SHRINK				
Free shrink (% at 120°C) LD*/TD**	62/62	57/57		COV-E209
Free shrink (% at 90°C)	20/25	15/20		COV-E209
Shrink tension (Kg/cm ²)	20/25	20/25		COV-E302
BARRIER				
MVTR ⁽¹⁾ (g/m ² , 24h)	19	16	12	ASTM F 1249-90
O ₂ permeability ⁽²⁾ (cm ³ /m ² , 24h, bar)	6600	6000	5100	ASTM D-3985
CO ₂ permeability ⁽²⁾ (cm ³ /m ² , 24h, bar)	20000	20000	18000	COV-E68
OPTICAL				
Haze (%)	2.9	3.4	4.0	ASTM D-1003A
Gloss (gloss unit ⁽³⁾)	135	135	135	ASTM D-2457
STORAGE CONDITIONS				
Recommended maximum temperature for long-term storage: 32°C, max. 80°C R.H., up to one year				

⁽¹⁾ 38°C, 100% RH ⁽²⁾ 23°C, 0% RH ⁽³⁾ l = 60°

LD* = Longitudinal Direction TD** = Transversal Direction

Opti[®] is a registered trademark of Sealed Air Corporation.

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 herein. In accordance with our policy of continuing product development we reserve the right to change specifications without notice.

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