Sealed Air
Product Care

Cryovac® CT-304E

High Performance Micro-Layered Shrink Films

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PRODUCT SPECIFICATION SHEET
HIGH PERFORMANCE SHRINK FILM

The Cryovac® CT-304E is a revolutionary micro-layered shrink film. This polyolefin shrink film provides a radical new technological capability within the packaging industry.

THE MOST SUSTAINABLE SOLUTION IN THE INDUSTRY

- Up to 50% packaging weight reduction
- Significant source reduction results in lower tunnel temperatures
- Reduction of the number of cores, cartons, pallets and storage place

FEATURES AND BENEFITS

- Excellent optics, highest clarity and lowest haze for improved retail appeal
- Improved efficiency and lower operating costs
- Enhanced seal strength and durability

Film Data	Unit	Typical Values		Test Method
Thickness	µ	14		ASTM D6988
Yield	m²/kg	77		
Length Centre Folded	lm	1454		
Width Centre Folded (50 mm increment)	mm	From 155 to 905		
Core diameter	mm	76		
Mechanical		**LD***	**TD***	
Tensile strength	kg/cm²	1200	1300	ASTM D882-95
Elongation at break	%	100	120	ASTM D882-95
Modulus of elasticity	kg/cm²	5200	5400	ASTM D882-95
Tear propagation	g	5	7.3	ASTM D1938
Kinetic coeff. of friction	(film-to-film, kinetic)	0.13		ASTM D1894
Puncture resistance	g	2500		COV-E-236
Shrink and Barrier				
Free shrink @ 120°C	%	67	65	ASTM D2732
Max. shrink tension	kg/cm²	26	34	COV-E-302
Moisture vapour transmission rate	g/m²/24hrs @ 38°C	33		ASTM F1249
Oxygen transmission rate	cm³/m²/24hrs @23°C, 1 atm	11000		D3985-95
CO2 transmission rate	cm³/m²/24hrs @23°C, 1 atm	45000		ASTM D1434
Optical				
Haze	%	3.5		ASTM D1003
Gloss	gloss units (i = 60°)	131		ASTM D2457
Storage Conditions	Recommended conditions for long-term storage: Below 32°C, max RH 80%, for up to one year			
Food Law Approval	Complies with EU regulations on food contact materials. See "Product Regulatory Compliance Statement" for details.			
Quality	All Cryovac manufacturing operations in Europe have received or are applying for ISO 9001:2008 Quality Certification or its local equivalent			

LD = Longitudinal Direction / TD = Transverse Direction

Oba Gold 2013 · German Packaging Award Best Packaging 2013 · WPO Worldstar Winner 2013-2014 · 4 LDPE

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