

## RD-45/RD-106 Shrink Film

*Anti fog film perfect for displaying refrigerated products*

### Anti Fog

limits unsightly condensation buildup and fogging caused by refrigerating packaged fruits, vegetables and other products.

### Strength

withstands abuse in packing, shipping, retail stocking and consumer handling.

### Superior Clarity, Gloss and Sheen

presents products at their best, maximizing point of sale appeal.



**An anti fog shrink film with superior strength, versatility, machineability and merchandising appeal**

**Cryovac® RD-45**, available in 45 gauge and **Cryovac® RD-106**, available in 60, 75 and 100 gauge, are formulations of the Cryovac® D-film family, developed specifically for tougher abuse resistance, superior gloss and clarity, and a broad spectrum of shrink properties. Their unique anti fog properties make it ideal for shrink packaging refrigerated fresh fruits, vegetables, meats and other food items.

Increased seal strength is combined with superior tensile strength to survive rough handling in distribution and at the point of sale. Because RD-45 and RD-106 films have such a wide range of shrink properties, they are ideal for unusual shaped objects.

The RD films shrink and seal over a broad temperature range, and run at excellent speeds on various types of packaging equipment.

# Cryovac® RD-45/RD-106 Properties

Properties	Typical Values			
Gauge	45	60	75	100
Minimum Use Temperature	0°F	0°F	0°F	0°F
Maximum Storage Temperature (2-year maximum)	90°F	90°F	90°F	90°F
Shrink Temperature, Air	250°F - 300°F	250°F - 300°F	265°F - 350°F	280°F - 350°F
Density @ 73°F (g/cc)	0.92	0.93	0.93	0.93
Clarity %	75	80	81	80
Haze %	10.6	4.4	5.5	5.5
Gloss %	64	78	78	77
Instrumented Impact (lbs)	13	17	18	25
Oxygen Transmission Rate (cc/m <sup>2</sup> /24 hrs, 73°F, 1 atm) (cc/100 in <sup>2</sup> /24 hrs, 73°F, 1 atm)	10,800 - 13,800 700 - 900	8,500 - 11,500 550 - 740	7,500 - 8,900 485 - 575	5,500 - 7,500 355 - 485
Carbon Dioxide Transmission Rate (cc/m <sup>2</sup> /24 hrs, 73°F, 1 atm) (cc/100 in <sup>2</sup> /24 hrs, 73°F, 1 atm)	32,000 - 36,000 2,000 - 2,300	26,000 - 30,000 1,675 - 1,935	25,000 - 30,000 1,600 - 1,935	20,000 - 24,000 1,290 - 1,550
Water Vapor Transmission Rate (cc/100 in <sup>2</sup> /24 hr/73°F, 100% RH)	2.2	1.6 - 2.1	1.0 - 1.5	0.9 - 1.1
	<b>LD*/TD**</b>	<b>LD*/TD**</b>	<b>LD*/TD**</b>	<b>LD*/TD**</b>
Tensile Strength (psi)	18,000/22,000	16,000/17,000	18,500/18,600	19,000/17,000
Elongation @ Break (%)	75/115	145/145	132/129	150/135
Modulus of Elasticity (psi)	63,000/61,000	45,000/50,000	54,000/59,000	46,000/51,000
Tear Propagation (gms)	3.0/3.7	5.8/5.0	4.9/5.6	11/9
Unrestrained Free Shrink (%)				
240°F	61/65	54/60	54/63	57/62
260°F	81/79	79/79	78/76	76/76
280°F	82/79	79/80	80/78	77/76
300°F		80/80	80/78	77/77

Note: These are typical values for Cryovac films. They are not intended for use as limiting specifications. \* 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.



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