



# FD

## The Food Film

Ranpac FD is approved for direct food contact; a fast shrinking film with exceptional sealing properties, clarity and tear resistance. Ranpac FD is available singlewound or centerfolded as well as microperforated for increased air flow.

### Film Highlights:

- **Use:** Applications requiring direct food contact and or a fast shrink.
- **Appearance:** Superior clarity, gloss and sparkle.
- **Strength:** Excellent seal, tear, stiffness and stretch strength.
- **Machinability:** Fast shrinking film with high slip.
- **Applications:** Bakery products, Fresh Pizza and other foodstuffs.

### Available Shrink Ratios:

#### Balanced Orientation Films

- Ranpac FD11 MD 10% - TD 10% extra low shrink force for the most delicate and flexible products.
- Ranpac FD22 MD 20% - TD 20% low shrink force.
- Ranpac FD33 MD 30% - TD 30% medium-low shrink force.
- Ranpac FD44 MD 40% - TD 40% medium shrink force for most general purpose applications.
- Ranpac FD55 MD 50% - TD 50% high shrink force.

#### Preferential Orientation Films

- Ranpac FD23 MD 20% - TD 30% low shrink preferential orientation for non-symmetrical products requiring delicate packaging.
- Ranpac FD52 MD 50% - TD 20% medium shrink preferential orientation for most non-symmetrical applications.
- Ranpac FD61 MD 60% - TD 10% high shrink preferential orientation for elongated products.

## Technical Specifications

<b>PROPERTIES: (Mechanical, Thermal and Machinability).</b>			
Tensile Strength MD, kg/cm:	790	Internal Tear Resistance TD, g:	7
Tensile Strength TD, kg/cm:	650	Sealing Strength g/cm:	679
Elongation MD, %:	101	Sealing Temperature °F:	250
Elongation TD, %:	164	Sealing Temperature °C:	120
Internal Tear Resistance MD, g:	7	Slip Coefficient:	<0.3

<b>GAUGE</b>	<b>50</b>	<b>60</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
Yield: sq. In./lb	40,600	35,700	28,800	22,300	17,500	15,300
Weight: lbs. per in. width	1.69	1.67	1.65	1.65	1.65	1.65
Roll Length Flat: feet	6000	5000	4000	3000	2400	2000
Roll Length CF: feet	3000	2500	2000	1500	1200	1000

## Other Services:



**In-House Printing:** Darnel offers full service printing capabilities with in house designers and print experienced. Our presses can run up to 6 color flexographic printing. By being a one stop shop, Darnel ensures that both the quality of its films and printing conform to the customers exact requirements. Our quick turnaround times and low minimums make this a great packaging alternative for any size end user.



**Tech support and Consulting Services:** Our expert technical staff is available to support distributors and end-users in testing and product qualification. From general concept development to assistance in choosing the right film, our experienced sales staff is available to assist you.

