



# IMPERIAL™

## FLEXIBLE FILMS

### IMPERIAL **EF** (Economy Films)

- **3 Layer Film**
- **Excellent for freezer applications**
- **Strong Seals**
- **Excellent Gloss and Clarity**
- **Available in 47, 60, 75, 100 and 120 Gauge**
- **Cost effective**
- **FDA Approved**

Imperial **EF** film is a cost effective, strong high clarity multi-layer film.

It can be used for a wide range of products and is compatible with most shrink packaging equipment and sealing systems.

This film has a soft touch and is excellent in freezer applications.



  
*Be the King of your  
Purchasing Department!*



- Producing quality films since 2004
- State of the art manufacturing technology
- Multi-layer technology
- Superior optics on all films
- ISO-9001 Certified
- FDA Approved

IMPERIAL EF (ECONOMY FILM)								
TEST ITEM	UNIT	ASTM TEST	TYPICAL VALUES					
THICKNESS			12µm	15µm	19µm	25µm	30µm	
Tensile Strength (MD)	N/mm <sup>2</sup>	D882	115	110	110	100	90	
Tensile Strength (TD)			110	105	105	95	85	
Elongation (MD)	%		120	120	125	130	130	
Elongation (TD)			110	115	120	125	125	
Tear (MD)	g	D1992	11.5	14.0	17.5	24.0	28.0	
Tear (TD)			11.0	13.5	17.0	23.5	27.0	
SEAL Strength (MD)	N/mm	F88	0.68	0.80	1.00	1.27	1.50	
SEAL Strength (TD) / Hot Wire Seal			0.70	0.85	1.05	1.30	1.55	
COF Dynamic (Film to Film)		D1894	0.22	0.23	0.24	0.24	0.25	
COF Static			0.23	0.24	0.24	0.25	0.25	
Haze		D1003	2.10	2.60	3.00	3.80	4.40	
Clarity		D1746	99.0	98.0	97.0	95.0	92.0	
Gloss @ 45 deg		D2457	85.0	87.0	83.5	82.5	80.0	
Free Shrinkage		%	D2732	MD	TD	MD	TD	
	100°C			23	31	21	27	
	110°C			38	40	35	39	
	120°C			57	60	56	61	
	130°C			65	67	64	65	
Shrink Tension		Mpa	D2838	MD	TD	MD	TD	
	100°C			1.85	2.60	1.80	2.55	
	110°C			2.75	3.50	2.70	3.60	
	120°C			2.80	3.65	2.80	3.65	
	130°C			2.65	3.25	2.60	3.15	

The data provided is intended solely for informational purposes and represents our judgement based on tests performed. Ace Packaging Solutions, LLC, assumes no liability whatsoever in connection with the use of the information contained herein. Users are urged to conduct independent tests to determine final suitability for their specific application.

To purchase or for more information contact:



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**Ace Packaging Solutions**  
*"Thinking Outside of the Box"*

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