



# IMPERIAL™

## FLEXIBLE FILMS

### IMPERIAL **SP** (Superior Performance)

- **5 Layer Film**
- **Cross-linked for superior strength**
- **Strong Seals**
- **Excellent puncture and tear resistance**
- **Great for multi-packs**
- **Excellent clarity and gloss**
- **High shrink force**
- **Excellent burn-through resistance**
- **Available in 47, 60, 75, 100 and 120 gauge**
- **FDA approved**

Imperial **SP** film is a superior performance 5-layer cross-linked film.

It's designed for packaging a wide array of products from single boxes to multi-packs to irregular shaped products. The *cross-linked* technology makes this one of the strongest and most versatile films in the industry today. It machines well on virtually all shrink packaging equipment and sealing systems. The excellent optics and shrink force of the SP film makes this the ideal film to showcase your retail items.



  
*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 SP (SUPERIOR PERFORMANCE)							
TEST ITEM	UNIT	ASTM TEST	TYPICAL VALUES				
THICKNESS			12µm	15µm	19µm	25µm	
Tensile Strength (MD)	N/mm <sup>2</sup>	D882	130	130	135	135	
Tensile Strength (TD)			125	125	125	130	
Elongation (MD)	%		125	130	130	140	
Elongation (TD)			120	125	120	135	
Tear (MD)	g	D1992	10.0	14.0	17.0	25.0	
Tear (TD)			9.0	13.5	16.5	24.0	
SEAL Strength (MD)	N/mm	F88	1.10	1.15	1.35	1.50	
SEAL Strength (TD) / Hot Wire Seal			1.15	1.18	1.38	1.65	
COF Dynamic (Film to Film)		D1894	0.19	0.17	0.16	0.19	
COF Static			0.20	0.18	0.17	0.20	
Dynamic (Hot Slip) @ 60°C			0.27	0.26	0.25	0.23	
Haze		D1003	2.30	2.80	3.60	4.10	
Clarity		D1746	97.2	96.5	96.0	95.0	
Gloss @ 45 deg		D2457	86.0	84.0	83.5	82.0	
Free Shrinkage		%	D2732	MD	TD	MD	TD
	100°C			20	29	20	26
	110°C			38	43	35	45
	120°C			58	61	56	61
	130°C			65	66	64	65
Shrink Tension		Mpa	D2838	MD	TD	MD	TD
	100°C			1.70	2.55	1.85	2.65
	110°C			2.60	3.40	2.70	3.45
	120°C			2.80	3.55	2.85	3.65
	130°C			2.55	3.25	2.65	3.30

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:



**Phone 815-770-5860**  
**Joliet, IL**

*“Thinking Outside of the Box”*

[sales@acepackagingsolutions.com](mailto:sales@acepackagingsolutions.com)  
[www.acepackagingsolutions.com](http://www.acepackagingsolutions.com)



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