

IMPACT™ Shrink Film

Impact Strength When you need it most



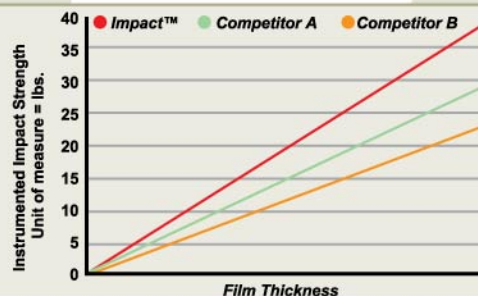
Benefits

- **Revolutionary Engineering**
- **Beauty and Durability**
- **Versatility**
- **Extremely Tough and Multi-layered Film**
- **Unmatched Clarity, Gloss and Sheen**
- **User Friendly**
- **Machineability**

Instrumented Impact Strength

ASTM #D3763

Instrumented impact strength is the index of the film's dynamic strength which approximates what will occur when the package is dropped and is useful in predicting resistance of film to breakage from dropping or other quick blows.



IMPACT™ Properties

		ASTM Test Method	Typical Values		
Grade/Instrumented Impact Strength (LB)			19	24	34
Yield (sq.in. per pound)			50000	40000	30000
Haze (%)		D 1003-95	3.1	3.3	3.7
Gloss (%)		D 2457-90	87	87	87
Clarity (%)		D 1746-92	86	85	81
Coefficient of Friction (film-to-film, kinetic)		D 1894-95	0.22	0.22	0.23
Water Vapor Transmission Rate (gms/100sq. in./24 hrs.)		F 1249-90	1.3	1.1	0.9
Oxygen Transmission Rate (cc/m ² / 24 hrs. @ 73 °F., 1 atm)		D 3985-95	8548	6726	4941
Tear Propagation (gms)	LD* / TD**	D 1938	3.8 / 4.9	5.3 / 6.0	8.5 / 9.2
Elongation at Break (%)	LD* / TD**	D 882-95	95 / 30	110 / 135	125 / 140
Minimum Use Temperature			-60°F		
Maximum Storage Temperature			90°F		
			LD*	TD**	
Tensile Strength (psi)		D 882-95	17500	19000	
Modulus of Elasticity (psi @ 73 °F)		D 882-95	60000	65000	
Free Shrink (%) @200 °F		D 2732-83	14	20	
@220 °F			22	33	
@240 °F			57	60	
@260 °F			77	77	
Shrink Tension (psi) @200 °F		D 2838-95	350	500	
@220 °F			400	570	
@240 °F			440	600	
@260 °F			440	535	
@280 °F			420	450	

* Longitudinal Direction ** Transverse Direction

This information represents our best judgement based on the work done, but the Company assumes no liability whatsoever in connection with the use of information or findings contained herein. Impact™ shrink film complies with the requirements of the Federal Food, Drug and Cosmetic Act, as amended, for the packaging of all foods, with the exception of high alcoholic, at temperatures of 65 °C and below.



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