Xenith™ Shrink Film Properties

(Results as of August 13, 2004)

	ASTM Test Method	Typical Values				
Grade		**X10**	**X20**	**X30**	**X40**	**X50**
Yield (Sq. In/lb.)		64,500	52,700	38,400	32,200	29,000
Haze %	D 1003-95	5.3	5.3	6.1	6.6	7.1
Gloss %	D 2457-90	78	79	79	78	76
Clarity %	D1746-92	73	76	71	67	64
Instrumented Impact Strength (lbs.)	D 3763-95a	9.7	10.5	16.2	17.6	17.8
Coefficient of Friction (film to film, kinetic)	D 1984-95	0.15	0.15	0.14	0.15	0.16
Water Vapor Transmission Rate (gms/100sq.in./24hrs.; 100%RH, 100 Deg. F)	F 1249-90	1.39	1.1	0.86	0.77	0.73
Oxygen Transmission Rate (cc/m sq/24hrs. @ 73 Deg F, 1 atm)	D 3985-95	6450	4750	3650	2832	2750
Minimum Use Temperature		-60 Deg F	-60 Deg F	-60 Deg F	-60 Deg F	-60 Deg F
		LD*/TD**	**LD*/TD****	**LD*/TD****	**LD*/TD****	**LD*/TD****
Elmendorf Tear (g/mil)	D 1922	60/49	84/58	101/76	85/68	84/46
Elongation at Break (%)	D 882-95	130/136	147/133	150/120	140/130	160/160
Tensile Strength (psi)	D 882-95	18/18	16/17	16/17	16/17	17/17
Modulus of Elasticity	D 882-95	94/101	97/95	109/103	112/111	103/103
Free Shrink (%)						
@180 Deg F		13/17	12/18	14/17	13/17	11/16
@200 Deg F		21/26	20/25	23/31	21/27	16/29
@220 Deg F	D 2732-83	33/39	30/40	41/46	37/44	38/44
@240 Deg F		66/68	67/71	68/74	66/68	71/72
@260 Deg F		77/76	76/77	77/75	77/76	78/77
Shrink Tension (psi)						
@180 Deg F		276/341	238/345	261/382	252/334	241/332
@200 Deg F	D 2838-95	314/379	273/398	285/435	283/384	296/393
@220 Deg F		328/377	306/430	277/434	313/412	345/414
@240 Deg F		346/364	310/397	291/436	338/415	351/383

* Longitudinal Direction ** Transverse Direction

This information represents our best judgement based on the work completed. The Company assumes no liability whatsoever with the use of information or findings contained herein. Current data is based on limited samples and is subject to modification prior to final publication.

Sealed Air
Shrink Packaging
Films and Systems