Properties

MPD-2055	ASTM Test Method	Typical Values			
Gauge		50	60	75	100
Yield (sq. in. per pound)		60,700	55,000	40,500	30,400
Haze (%)	D 1003-95	2.0	2.3	2.3	2.6
Gloss (%)	D 2457-90	89	89	89	89
Clarity (%)	D 1746-92	89	89	89	89
Instrumented Impact Strength (lbs)	D 3763-95a	12.1	12.8	15.5	20.0
Coefficient of Friction (film-to-film, kinetic)	D 1894-95	0.30	0.30	0.31	0.30
Water Vapor Transmission Rate (gms/100sg. In.24hrs.); 100% RH,100˚ F	F 1249-90	1.5	1.3	1.0	0.7
Oxygen Transmission Rate (cc/m²/24hrs. @ 73˚ F, 1atm)	D 3985-95	7,877	7,500	6,315	5,303
Tear Propagation (gms) LD* / TD**	D 1938	6.2 / 11.2	7.5 / 8.3	9.9 / 11.3	13.2 / 14.8
Elongation at Break (%) LD* / TD**	D 882-95	100 / 110	100 / 110	100 / 110	100 / 110
Minimum Use Temperature		-40˚ F			
Maximum Storage Temperature		90˚ F			

		LD*	TD**
Tensile Strength (psi)	D 882-95	16,500	17,500
Modulus of Elasticity (psi @ 73˚ F)	D 882-95	110,000	110,000
Free Shrink (%)	D 2732-83		
@200˚ F		13	21
@220˚ F		23	32
@240˚ F		39	51
@260˚ F		51	59
Shrink Tension (psi)	D 2838-95		
@200˚ F		290	440
@220˚ F		405	560
@240˚ F		410	570
@260˚ F		385	510

MPD-2100	ASTM Test Method	Typical Values		
Gauge		50	60	75
Yield (sq. in. per pound)		60,700	50,600	40,500
Haze (%)	D 1003-95	2.7	2.7	2.7
Gloss (%)	D 2457-90	84	84	84
Clarity (%)	D 1746-92	88	88	88
Instrumented Impact Strength (lbs)	D 3763-95a	10.8	11.9	14.2
Coefficient of Friction (film-to-film, kinetic)	D 1894-95	0.22	0.22	0.23
Water Vapor Transmission Rate (gms/100sg. In./24hrs.); 100% RH,100˚ F	F 1249-90	1.6	1.5	1.2
Oxygen Transmission Rate (cc/m²/24hrs. @ 73˚ F, 1atm)	D 3985-95	9,700	8,700	7,700
Tear Propagation (gms) LD* / TD**	D 1938	4 / 6	5 / 9	6.5 / 14
Elongation at Break (%) LD* / TD**	D 882-95	90 / 115	90 / 115	90 / 115
Minimum Use Temperature		-40˚ F		
Maximum Storage Temperature		90˚ F		

		LD*	TD**
Tensile Strength (psi)	D 882-95	16,000	16,000
Modulus of Elasticity (psi @ 73˚ F)	D 882-95	100,000	100,000
Free Shrink (%)	D 2732-83		
@200˚ F		12	19
@220˚ F		19	30
@240˚ F		35	47
@260˚ F		47	58
Shrink Tension (psi)	D 2838-95		
@200˚ F		285	420
@220˚ F		430	570
@240˚ F		435	555
@260˚ F		425	486

*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. MPD-2055 complies with the requirements of the Federal Food, Drug and Cosmetics Act, as amended, for the packaging of all foods, with the exception of high alcoholic, at temperatures of 65˚C and below. MPD-2100 complies with the requirements of the Federal Food, Drug and Cosmetics Act, as amended, for the packaging of all foods, with the exception of high alcoholic, at temperatures of 65˚C and below.