



**TYPICAL PROPERTIES OF 4000 SERIES
POLYESTER**

Gauge	92	142	200	300	400	500	700
Microns	23	36	50	75	100	125	175
Area Yield in ² /lb. x 10 ⁻³	21.5	14.0	10.0	6.7	5.0	4.0	2.9
m ² /kg	30.6	19.9	16.2	9.5	7.1	5.7	4.1

PROPERTY	UNITS	ASTM TEST METHOD	TYPICAL VALUES
Ultimate Tensile Strength	PSI	D882	30,000 - 32,000
Ultimate Elongation MD	%	D882	100 - 140%
Stress at 5% Elongation MD	PSI	D882	14,500 - 15,650
Tensile Modulus MD	PSI	D882	426,700 - 700,000
Density	—	D1505	1.395 g/cm ³
Service Temp. Range	°F		100 to 302° F
Water - Low RH	—	E96, A	0.44
Water - High RH	—	F96, F	1.66
Nitrogen	—	—	0.42
Oxygen	—	D3985	2.97
Carbon Dioxide	—	—	13.06
Hydrogen	—	—	59.35
Breakdown Voltage	(23°C, 50% RH)	D149	7500 volts
Dielectric Constant	(0.1 kHz, 25°C)	D149	3.3
Dissipation Factor	(0.1 kHz, 25°C)	D149	0.003
Volume Resistivity	25°C	D257	10 ¹⁸ ohm*cm
Surface Resistivity	(23°C, 80% RH)	D257	10 ¹² ohm/square

Typical values give are for 92 gauge

CHEMICAL RESISTANCE	ASTM TEST METHOD	VALUE
Strong Acids	D543	Good
Grease & Oils	D722	Good
Strong Alkalies	D543	Poor
Organic Solvents	D543	Good
Water	E96	Good
Sunlight	D1435	Fair
Dimensional Stability (100°C for 30 minutes)	D1204	% <0.5
Heat Sealing Temp. Range of		425° - 450° F
F.D.A. Grades		yes

The data herein represent typical values by the methods indicated and should be so considered.

Since processing variables are a major factor in product performance, this information should serve only as a guide. To the best of our knowledge, the data are correct. No warranty is made or is to be implied. The Corporation assumes no obligation or liability