

3M Film, Bag and Tubing Properties*

Property	Test Method	Typical Value
Thickness	ASTM D2103	4 mil (102 microns)
Strength		
Breaking Factor	ASTM D882	10 lbs./in.
Puncture	Fed Std 101	8 lbs.
Heat Seal Parameters		
Temperature		180°F - 250°F
Time		0.5-5.0 sec.
Pressure		20-60 PSI
Temperature Limits		- 50°F to 150°F
Vicat Softening Temperature	ASTM D1525	83°C
Electrical Properties		
Volume Resistivity	ASTM D991	<500 ohm-cm
Static Decay	EIA-541	<2 sec.
Water Vapor Transmission	ASTM F372	3 g/sq m/day
Chemical Susceptibility		
Dilute Acids and Alkalies	ASTM D543	Resistant
Concentrated Acids and Alkalies		Slight attack
Alcohols (Isopropanol)		Resistant
Hydrocarbons (Heptane)		Moderate attack
Ketones (Acetone)		Slight attack
Oil and Gasoline		Moderate attack
Aromatic Hydrocarbons (Toluene)		Severe attack
Shelf Life		Indefinite

Typical values for 4.0 mil. film.

*Physical characteristics will change with other thicknesses.