

# PARAFIL® M Laboratory Film

## Description

Product Codes: PM992, PM996, PM998, PM999



## General Description

Flexible sealing film comprising a proprietary blend of waxes and polyolefins on a paper release liner

## Features

Parafilm® M is highly insensitive to water, moisture loss and moisture absorption, yet is permeable to oxygen and carbon dioxide. Parafilm® M stretches more than 350% of its original length and is self-sealing, allowing it to cling around irregular shapes and surfaces. These unique properties make it ideal for protecting the contents of test tubes, flasks, beakers, and Petri dishes as well as an overwrap to further secure stoppers, lids and caps.

## Technical Data

Properties	Values	Units	Test Method
Thickness	127	µm	ASTM D645
Density	0.922	g/cm <sup>3</sup>	Amcor Internal
Elongation at Break	>350	%	ASTM D882
Water Vapor Transmission Rate	1	g/(m <sup>2</sup> · d) @ 38 °C; 90% RH	ASTM F1249
Oxygen Transmission Rate	300	cm <sup>3</sup> /(m <sup>2</sup> · d) @ 23 °C; 0% RH	ASTM D3985
Carbon Dioxide Transmission Rate	1200	cm <sup>3</sup> /(m <sup>2</sup> · d) @ 23 °C; 0% RH	ASTM F2476
Softening Point	54	°C	Amcor Internal
Melting Point	100	°C	Amcor Internal

## Effects of Common Reagents

Parafilm® M is resistant against many polar substances for up to 48 hours. After this period, some brittleness may occur. It is not recommended for use with chlorinated or non-polar aliphatic or aromatic solvents.

	Reagent	Concentration	24 h exposure at 23 °C
Acids	Hydrochloric acid	12 N	No apparent effect
	Sulfuric acid	36 N	No apparent effect
	Nitric acid	16 N	Resistant (some discoloration)
Alkalis	Sodium hydroxide	18 N; 22 wt-% NaOH	No apparent effect
	Ammonium hydroxide	14.5 N; 28 wt-% NH <sub>3</sub>	No apparent effect
Organics	Methanol		No apparent effect
	Ethanol	95 % (v/v)	No apparent effect
	Isopropanol	99 % (v/v)	No apparent effect
Other	Saline solution	20 wt-% NaCl	No apparent effect
	Potassium permanganate	5 wt-%	Resistant (some discoloration)
	Iodine solution	0.1 N (KI+I <sub>2</sub> )	Resistant (some discoloration)

