

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 ³	Amcor Internal
Elongation at Break	>350	%	ASTM D882
Water Vapor Transmission Rate	1	g/(m ² · d) @ 38 °C; 90% RH	ASTM F1249
Oxygen Transmission Rate	300	cm ³ /(m ² · d) @ 23 °C; 0% RH	ASTM D3985
Carbon Dioxide Transmission Rate	1200	cm ³ /(m ² · 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	1.8 N; 22 wt-% NaOH	No apparent effect
	Ammonium hydroxide	14.5 N; 28 wt-% NH ₃	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 ₂)	Resistant (some discoloration)

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Ordering Data

Available in several lengths and widths for a variety of laboratory and research applications

Manufacturer Part No.	Width	Length	Boxes Per Case
PM992	2" (5 cm)	250' (75 m)	24
PM996	4" (10 cm)	125' (38 m)	12
PM999	4" (10 cm)	250' (75 m)	12
PM998	20" (50 cm)	50' (15 m)	6

Paper Release Liner (Slip Sheet)

Given the nature of the raw materials, a glassine paper slip sheet is interlaced to prevent the layers from sticking or adhering together. This slip sheet is designed to be removed and discarded in an appropriate way after the Parafilm® M is dispensed from the roll.

The level of bond between the Parafilm® M and slip sheet can vary and does not indicate a quality issue or affect the performance of the Parafilm® M material. For best results, Parafilm® M should be stored according to the instructions below.

Storage Conditions

- Temperatures of 45 °F to 90 °F (7 °C to 32 °C) and relative humidity of 35 % to 55 % are desirable. Avoid extremes of heat and cold.
- Store products in a cool, dry, clean environment; store several inches off the floor.
- Protect products from direct sunlight, heat, moisture, and keep in original container until ready for use.

Shelf Life

- Under the storage conditions stated above, we expect Parafilm® M to have an indefinite shelf life.

Tariff Classification

- This product is classified for export under Harmonized Tariff Schedule number 3404.90.5150

Disclaimer

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Physiological Properties

- Color: Natural (semi-clear)
- Toxicity: non-toxic

Safety Data Sheets (SDS)

Parafilm® M is non-hazardous and exempt from requirements of Safety Data Sheets. For more information, a Regulatory Declaration of Compliance and Exemption Letter is available on request.

