

TECHNICAL SHEET

P0360ST

PARAFILM® M

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 selfsealing, 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.



COMPOSITION

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

Free of plasticizers, phthalates and latex.

Color: Natural (semi-clear)

Toxicity: non-toxic

Parafilm® M is non-hazardous and exempt from requirements of Safety Data Sheets.



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)

PRODUCT AVAILABILITY

Manufacturer Code	Kaltek code	Width (cm)	Length (m)	Pcs. per pack
PM992	3055	5	75	24
PM996	0360	10	38	12
PM999	3056	10	75	12
PM998	-	50	15	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

- 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.

PRODUCT SHELF LIFE

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

ACCESSORIES

PARAFILM® M SUPPORT - Ref. 0582

PARAFILM® M SUPPORT is a dispenser with handy cutter designed to cut and store cleanly PARAFILM® M sealing film.

Suitable for 50 mm and 100 mm wide rolls.

Dimensions L x W x H: 215 x 165 x 155 mm

Packaging: 1 pcs.

