

## PARAFILM® M sealing film

PARAFILM® M sealing film is used in laboratories to protect samples contained in glass beakers, Erlenmeyer flasks, weighing bottles, graduated cylinders and, because it stretches up to 200%, it also adheres to irregular shapes and surfaces.

Protects the sample from contamination or evaporation and prevents spillage if the container overturns.

PARAFILM® M is free of plasticizers and is essentially made up of polyolefins and paraffin waxes. If the **PARAFILM® M** comes into contact with food, respect the legal requirements in force on the matter. PARAFILM® M complies with the general requirements of the FDA (Food and Drug Administration) for use below 55 ° C and in compliance with GMP (Good Manufacturing Practice).



### Chemical resistance

PARAFILM® M resists up to 48 hours to many polar substances, eg. saline solutions, inorganic acids and alkaline solutions. After this period of time some embrittlement may arise.

### storage

PARAFILM® M can be stored for at least 3 years without undergoing alterations at a temperature between 7 ° C and 32 ° C and a relative humidity of 50%.

### Physical properties

Toxicity: non-toxic

Melting point: 60 ° C

Flash point: 301 ° C

Temperature (continuous use): -45 ° C to +50 ° C

Stretching capacity: 200%

Elongation at tear: 300%

Gas permeability in 24 hours at 23 ° C and 50% relative humidity:

O<sub>2</sub> (oxygen): ≤ 350 cm<sup>3</sup> / m<sup>2</sup>

N<sub>2</sub> (nitrogen): ≤ 105 cm<sup>3</sup> / m<sup>2</sup>

CO<sub>2</sub> (carbon dioxide): ≤ 1100 cm<sup>3</sup> / m<sup>2</sup>

Permeability to water vapor in 24 hours at 37 ° C and 90% relative humidity: 0.8 g / m<sup>2</sup>

## Effects of exposure for 48 hours at 23 ° C

### Acids:

Resistant 36.5% hydrochloric acid

98% sulfuric acid resistant

95% resistant nitric acid \*

### Alkaline solutions:

Resistant 22% sodium hydrate

Ammonia resistant 28%

### Saline solutions:

20% resistant sodium chloride

Potassium permanganate 5% resistant \*

Iodine solution 0.1 mol / l resistant \*

### Organic solvents:

Resistant methyl alcohol

Resistant ethyl alcohol

Resistant isopropyl alcohol

Non-resistant diethyl ether

Non-resistant chloroform

Non-resistant carbon tetrachloride

Non-resistant benzene

Non-resistant toluene

\* Brown coloring

Further formats available on request:

- Pack of 12 Parafilm L 100 mm x 76 meters
- Pack of 6 Parafilm L 500 mm x 15 meters

Accessories on request:

PARAFILM® M cutter, very useful for cleanly storing and cutting the PARAFILM® M sealing film. Suitable for rolls of 50 and 100 mm width.

Code	Description	Width mm	Length m	Pieces per pack.
4400090	PARAFILM® M sealing film 10mm x 38 meters	100	38	12
4400091	PARAFILM® M sealing film 5mm x 76 meters	50	76	24