

Wertheim, 13/03/2015

Information about Parafilm M

Product: PARAFILM® M

Cat. No.: 7015 01
7016 05
7016 06
7016 11

Physical data

Color: whitish
Odor: very slight waxy
Taste: almost nil
Toxicity: not toxic
Combustibility: open cup flash point 301.67 °C
Thickness: ca. 0.127 mm
Density: ca. 0.89 g/cm³
Weight: ca. 114 g/m² (without paper weight 3 g/m²)
Temperature range (continuous use) -45 °C to +50 °C.
Melting point: 60 °C
Flash point: 301 °C
Stretching ability (23 °C): 200 %
Elongation at tear (23 °C): 300 %

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

O₂ (oxygen): ≤ 350 cm³/m²
N₂ (nitrogen): ≤ 105 cm³/m²
CO₂ (carbon dioxide): ≤ 1100 cm³/m²

Water vapor permeability in 24 hours at 37 °C and 90 % relative humidity: 0.8 g/m².

Physiological characteristics

Parafilm® M conforms to the provisions of the US FDA Food and Drug Administration when used below 55 °C and observance of GMP („Good Manufacturing Practices“). If Parafilm® M comes in contact with foods, the relevant regulations should be observed.

The sealing film is free of plasticizers and latex and consists primarily of polyolefins and paraffin waxes. During production processes of Parafilm® M neither bisphenol A (BPA) nor Diethylhexylphthalat (DEHP) is used.

Chemical resistance

Parafilm® M is resistant up to 48 hours against many polar substances, e.g. saline solutions, inorganic acids, and alkaline solutions. After this period embrittlement may occur.

Effects of 48 hours of exposure at 23 °C:

Acids	Hydrochloric acid 36.5 %	resistant
	Sulphuric acid 98 %	resistant
	Nitric acid 95 %	resistant (brown-discoloration)
Alkaline solutions	Sodium hydroxide 22 %	resistant
	Ammonia 28 %	resistant
Saline solutions	Sodium chloride 20 %	resistant
	Potassium permanganate 5 %	resistant (brown-discoloration)
	Iodine solution 2 %	resistant (brown-discoloration)
Organic solvents	Methanol	resistant
	Ethanol	resistant
	Isopropanol	resistant
	Diethylether	not resistant
	Chloroform	not resistant
	Carbon tetrachloride	not resistant
	Benzene	not resistant
	Toluene	not resistant

Caution:

Vapor pressure from highly volatile substances can force Parafilm® M from the container edge!!

Storing properties:

Parafilm® M can be stored at least 3 years, without quality impairment, under the storing conditions between 7 °C and 32 °C at 50 % relative humidity.

Our technical literature is intended to inform and advice our customers. However, the validity of general empirical values and results obtained under test conditions for specific applications depends on a number of factors beyond our control. Please appreciate, therefore, that no claims be derived from our advice. You, yourselves, are responsible for very carefully checking the validity for your particular application.

General Information:

Parafilm® M being of common use in the laboratory is not subjected to requirements of EC-Directive for CE/IVD-products.

BRAND GMBH + CO KG

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