

Wertheim, 15. Januar 2018

Product Information

Product: PARAFILM® M

Cat. No: 701605
701611
701501
701606

Physical data

Color: whitish
Odor: very slight waxy
Taste: almost nil
Toxicity: not toxic
Combustibility: open cup flash point 301 °C
Thickness: ca. 0.127 mm
Density: ca. 0.89 g/cm³
Weight: ca. 114 g/m² (without paper)
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 within 24 hours at 23°C and 50 % relative humidity:

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

Water vapor permeability within 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 phthalates plasticizers, latex, PVC and consists primarily of polyolefin and paraffin waxes. No additives (according to guideline 2003/11/EG) like pentabrominated or octabrominated diphenyl ethers (flame retardants) in a concentration of more than 0.1 % by weight are contained. Parafilm M is free of lead.

Chemical resistance

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

Effect 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
	Diethyl ether	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® from the container edge!

Storing properties:

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

Our technical literature is intended to inform and advise 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.

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

i. V.



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i. A.



Dr. Nicolas Frank
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