Parafilm M[®] FILM Performance Characteristics

Permeability Characteristics:

- Oxygen (ASTM 1927-98):
 - 150 cc/m² d at 23°C and 50% RH
- Carbon Dioxide (Modulated IR Method):
 - o 1200 cc/m² d at 23°C and 0% RH
- Water Vapor (ASTM F1249-01):
 - o Flat:
 - 1 g/m² d at 38°C and 90%
 - Creased:
 - same as flat



Note: Because of low water permeability and the insensitivity of this material to moisture vapor, it is unlikely that differences in relative humidity (RH) will make a difference in the oxygen permeability.

Effects of Common Reagents:

- Hydrochloric acid conc. (12N) dil. (5N) no apparent effect in 24 hours
- Sulphuric acid conc. (36N) dil.(5N) no apparent effect in 24 hours
- Nitric acid conc. (16N) dil. (5N) no apparent effect in 24 hours
- Sodium hydroxide conc. (22%) no apparent effect in 24 hours



- Ammonium hydroxide conc. (28% NH3) no apparent effect in 24 hours
- Potassium permanganate:
 - o 5%: no apparent effect except permanent dark brown coloration in 18 hours
 - o 0.1%: same as 5% but slightly less color
 - Iodine solution 0.1N: no effect except brown staining in 18 hours
- Salt (NACL) solution 20%: no apparent effect in 24 hours
- Ethyl Alcohol 95%: no apparent effect except some face whitening in 24 hours
- Isopropyl alcohol 99%: no apparent effect in 24 hours
- Not recommended for use with chorinated, non-polar aliphatic and aromatic solvents Film becomes soft and sticky at about 130°F to 150°F (68°C)

















