Parafilm® M All-Purpose Laboratory Film Specs

Permeability

- Oxygen: (ASTM 1927-98) 150 cc/m^2 d at 23°C and 50% RH
- Carbon Dioxide: (Modulated IR Method) 1200 cc/m^2 d at 23°C and 0% RH
- Water Vapor: (ASTM F1249-01)
    - o Flat: 1 g/m^2 d at 38°C and 90% RH
    - o Creased: 1 g/m^2 d at 38°C and 90% RH

Effects of Common Reagents

- Potassium Permanganate
    - o 5%: No apparent effect except permanent dark brown coloration in 18 hours
    - o 0.1%: Same as 5% except slightly less color
- Iodine solution (0.1N)
    - o No effect except staining brown in 18 hours
- Ethyl Alcohol (95%)
    - o No apparent effect except some face whitening in 24 hours
- No apparent effect in 24 hours:
    - o Hydrochloric Acid conc. (12N)dil. (5n)
    - o Sulphuric Acid conc. (36n) dil. (5n)
    - o Nitric Acid conc. (16n) dil. (5n)
    - o Sodium Hydroxide conc. (22%)
    - o Ammonium Hydroxide conc. (28% NH3)
    - o Salt (NACL) solution (20%)
    - o Isopropyl Alcohol (99%)
- Not recommended for use with chlorinated, non-polar aliphatic and aromatic solvents
- Film becomes soft and sticky at about 130°F to 150°F (68°C)