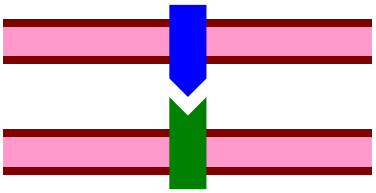
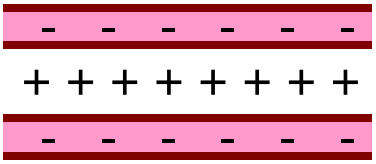
MEMBRANE ADHESION



SITE SPECIFIC



GENERIC

TYPICAL FORCE TO BREAK BOND AT T = 300 K IS

50 pN

TYPICAL ENERGY DENSITY OF ADHESION IS

10^{-5} J/m^2

FOR A SURFACE OF AREA 20 μm^2

2×10^{-16} J

WITH 100 BONDS / μm^2
AT 15 $k_B T$ PER BOND
1.2×10^{-16} J

COMPARES TO A BENDING ENERGY OF
$8\pi \kappa_{BEND} = 2 \times 10^{-18}$ J AT $\kappa_{BEND} = 20\, k_B T$