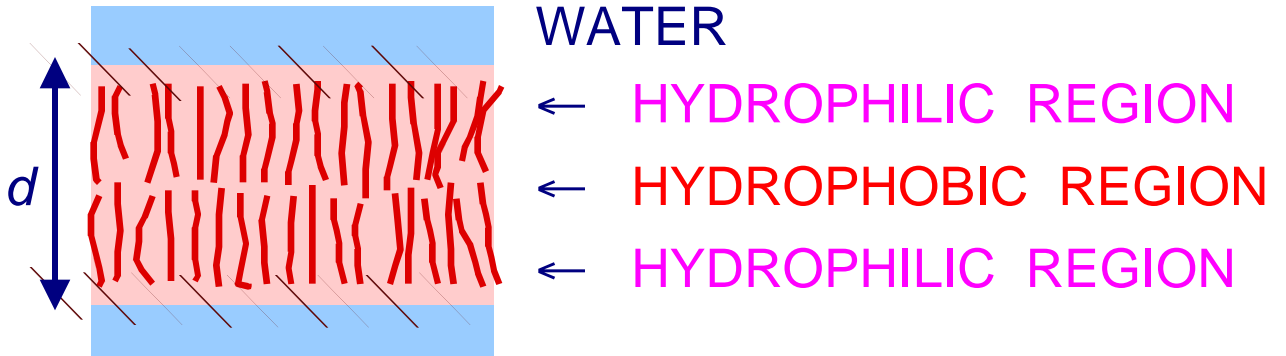
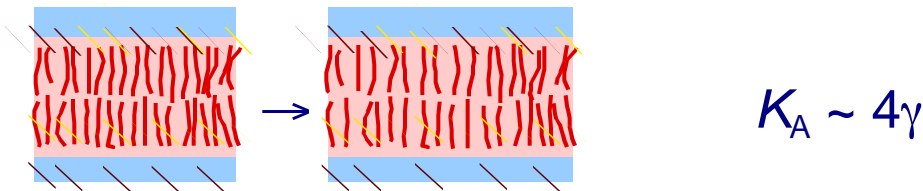


CONSTRUCTION MATERIALS: LIPIDS

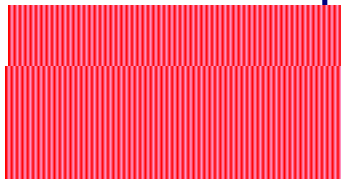


MODELS CAN RELATE ELASTIC PARAMETERS TO THICKNESS d AND SURFACE TENSION γ

AREA COMPRESSION MODULUS K_A

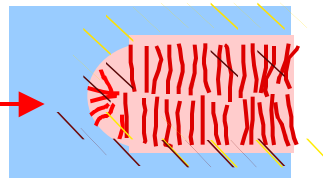
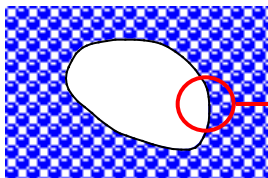


BENDING RESISTANCE κ_b



$$\kappa_b \sim K_A d^2 / 24 \quad (\text{RANGE OF } 12 - 48)$$

EDGE TENSION λ



$$\lambda \sim \kappa_b / 2d$$

EXP: $K_A \sim 0.2 \text{ J/m}^2$

$\kappa_b \sim 10 - 20 k_B T$

$\lambda \sim 10^{-11} \text{ J/m}$