The interrelation between the low-temperature dynamic transition and the change of conformational states of synthetic biomembranes was found. By Raman spectroscopy it was observed that above the dynamic transition temperature the phospholipids molecules obey additional freedom degrees: nonpolar lipid tails turn from all-trans state to states with gauche conformations. A two excited state model, describing the decrease of lipids in all-trans state, was suggested (Fig. 1.5).

Fig. 1.5. Circles correspond to the fraction of lipids in all-trans state, found from Raman experiment. Line is the model curve
Публикации: