

Characterization of surface functionality of polymer colloids

Model colloids, but also industrial latex particles are often equipped with functional groups at the surface. If these groups are permanently charged or they become charged caused by dissociation and protonation, respectively, electrophoretic mobility of the particles is influenced. Suitable measurements demonstrate dissociation or protonation equilibria at the particle surfaces.

Paulke, B.-R., Möglich, P.-M., Knippel, E., Budde, A., Nitzsche, R., Müller, R.H., Langmuir, 11 (1995) 70-74, "Electrophoretic 3D-Mobility Profiles of Latex Particles with Different Surface Groups"

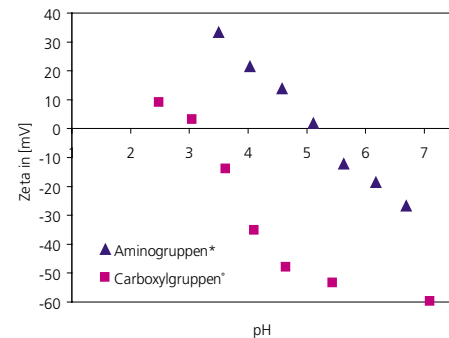


Figure 1
Surface functionality of polymer colloids
* anionic latex particles
o uncharged latex particles