Prepartion of acrylic latexes containing chitosan and the effect of chitosan contents on alkali solubility

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In this study, acrylic latexes containing chitosan and their films were prepared by emulsion polymerization using different chitosan contents. Methacrylic acid(MAA), methyl methacrylate(MMA), ethyl acrylate(EA) as monomer and sodium persulfate(SPS) as initiator were used. Five series of experiments were carried out by varying chitiosan content (i.e. 0.5%, 1%, 1.5%, 2%, 2.5%). The structural properties of the latex were analyzed by FT-IR. The particle size and particle size distribution was measured by dynamic light scattering. The alkali solubility of the latex containing chitosan decreased with increasing chitosan contents.