

Butyl acrylate/Methyl methacrylate/Glycidyl methacrylate latexes prepared by seeded emulsion polymerization

이용윤, 최중소, 나재식*
광운대학교
(najaesik@kw.ac.kr*)

The butyl acrylate (BA)/methyl methacrylate (MMA), and glycidyl methacrylate (GMA) composite copolymer latex was prepared by seeded emulsion polymerization. Four series of experiments were carried out by varying the ratio of BA : MMA (w/w) (i.e. 3 : 1, 2 : 1, 1.5 : 1, and 1.2 : 1) and in each series GMA content was varied from 1 to 3% (w/w). The structural properties of the latex were analyzed by FTIR. The glass transition temperature (T_g) of the latex obtained from the differential scanning calorimetry (DSC) curve. The particle size and particle size distribution was measured by dynamic light scattering.