

ABSTRACT

ALKALI - RESISTANT CORE-SHELL POLYMERS

Alkali-resistant core-shell polymers having an acid-insoluble core and an acid-soluble shell are prepared by sequential emulsion polymerization of a monomer mixture having acid-ionizable functionality such that the resulting polymer has an acid-insoluble core and an acid-soluble shell. Films from these alkali-resistant, core-shell polymers are resistant to high pH environments where alkali-resistance is required. The alkali-resistant, core-shell polymers are useful in applications such as inks, clear overprint varnishes, coatings, metal adhesion, fiber treatment, paper treatment, cathodic deposition coatings, stain blocking, coagulants and flocculants.

