

Synthesis and Properties of Poly acrylic superabsorbent polymer by inverse-suspension polymerization

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Superabsorbent polymers are polymers that can absorb and retain extremely large amounts of a liquid relative to their own mass. Water-absorbing polymers, which are classified as hydrogels when cross-linked, absorb aqueous solutions through hydrogen bonding with water molecules.

The objectives of this study were : (1) to examine polymerization of Poly(acrylic acid) which was synthesized by inverse suspension polymerization method and effects of (2) monomer concentration, (3) alkali concentration, (4) initiator concentration, (5) crosslinker concentration.