

High Incorporation of SO₂ into Copolymers Resulting from Acrylic Monomer/Sulfur dioxide Systems at Low Temperature

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ABSTRACT

Copolymerization of SO₂ with acrylic monomers resulted in relatively high incorporation of SO₂ when the polymerization was performed at low temperatures in the presence of tert-BuOOH, which was highly effective at that temperature. Copolymers with acrolein, Methyl acrylate, or acrylamide averaged 3 acrylic units per SO₂ monomer unit, while incorporation of SO₂ into acrylonitrile copolymers was relatively low.