

New Telechelic Polymers by Inifer Techniques

Mah, Soukil, Inha Univ.

The synthesis of α, ω -di-tert-chloropolyisobutylenes (chlorine-telechelic PIB's) containing ethylene unit at the center of molecule have been carried out at -30°C in methylchloride by the use of aliphatic binifers. The aliphatic binifers are cis- and trans- 2,5-dichloro-2,5-dimethyl-3-hexenes.

The undesirable side reaction, intramolecular cyclization was prevented in this allylic structure containing aliphatic dichloride/ BCl_3 initiating system.

And various linear and three-arm star end reactive prepolymers carrying one, two or three terminal functions, prepared by carbocationic techniques. These materials are valuable intermediates for the synthesis of block copolymers, and for extension by end-linking.