## Living Cationic Polymerization of Isobutylene

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This study concerns the truely living cationic polymerization of isobutylene, initiated by 2,5-diacetoxy-2,5-dimetyl-3-hexene/BCI $_3$  combination in metylene chloride at -30°C.

The living nature was demonstrated by linear  $\overline{\text{Mn}}$  versus g polymer yielded plots. The molecular weight of resulting polymer obeys the ratio of monomer and acetate-BCl $_3$  concentrations. Thus, it has been concluded that termination and chain transfer are absent and the initiation is quantitative and faster than the propagation.