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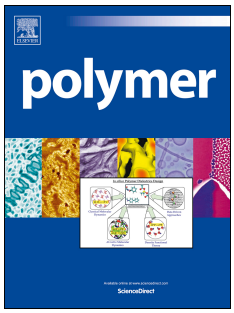

Crystallization behaviour of syndiotactic polystyrene and benzoylated syndiotactic polystyrene

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Graphical Abstract

Loading trace amount of α heterogeneous fibrous nucleating agent PTBBNa in sPS and benzoylated sPS is a good way to investigate strictly the linear crystal growth rate of α and β forms under the same melt condition and the same crystallization temperature range. The results reveal that the trace amount of α nucleating agent PTBBNa loading in samples does not influence the growth rate of α and β forms and the growth rate of β form is faster than that of α form in both sPS and BzsPS-2% (with benzoylation degree of 2%) samples.