Abstract
Process Economics Program Report 39C
SYNDIOTACTIC POLYSTYRENE
(August 1994)

As of early-1994, syndiotactic polystyrene (sPS) has been produced only in pre-commercial quantities. Start-up of a commercial plant is expected in 1994-1995.

This report reviews the technology for syndiotactic polystyrene production and examines the process economics of a conceptual fluidized bed reactor process, a conceptual self-cleaning reactor process, and a conceptual stirred-tank reactor process. The study also reports the industry status of syndiotactic polystyrene, including properties of some pre-commercial products.

This report is useful not only to present and future polystyrene producers but also to present and future producers of engineering thermoplastics. Properly formulated sPS can compete in certain engineering thermoplastics applications.
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