



# PROCESS ECONOMICS PROGRAM

SRI INTERNATIONAL

Menlo Park, California

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## Abstract

Process Economics Program Report No. 86D

HIGH TEMPERATURE POLYMERS

(October 1989)

This report, Process Economics Program Report 86D, is the fifth in a series of reports on high temperature polymers. The report contains preliminary process designs and cost estimates for the manufacture of three polymers: polyarylate by a melt polymerization process, polyetherketone, and polythioether sulfone (a block copolymer). Two types of monomers are also evaluated in the report, diphenyl iso- and terephthalate (used in the manufacture of the polyarylate) and 4-chloro-4'-hydroxybenzophenone (used in the manufacture of the polyetherketone). The report also includes reviews of pertinent patents on these chemicals. Sections on the basic chemistry of the manufacturing processes and the status of the industry are also provided.

SRI International

Report No. 86D

# HIGH TEMPERATURE POLYMERS

SUPPLEMENT D

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**PROCESS ECONOMICS PROGRAM**

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For detailed marketing data and information, the reader is referred to one of the SRI programs specializing in marketing research. The *CHEMICAL ECONOMICS HANDBOOK* Program covers most major chemicals and chemical products produced in the United States and the *WORLD PETROCHEMICALS* Program covers major hydrocarbons and their derivatives on a worldwide basis. In addition, the SRI *DIRECTORY OF CHEMICAL PRODUCERS* services provide detailed lists of chemical producers by company, product, and plant for the United States and Western Europe

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