Abstract

Process Economics Program Report No. 159B

SPECIALTY PLASTIC FILMS

(July 1993)

This report is a supplement to PEP Report 159A on specialty plastic films. The previous report covered the technologies and economics for the production of agricultural films, microporous films, fluoropolymer films, polycarbonate film, and polyimide film. The present report covers the following specialty films:

- Polyester (PET) film for magnetic media
- Polyethylene 2,6-naphthalate (PEN)
- Metallized polyester (M-PET), and metallized and oriented polypropylene (M-OPP) films by
  - The resistance-heated boat method
  - The electron beam heating method
- Biaxially oriented monolayer and coextruded nylon (BON) films by
  - The double-bubble blowing process
  - The chill-roll casting process
- Polyetherimide (PEI)
- Polyetheretherketone (PEEK)
- Polyarylate (PAR)
- Liquid crystal polymer (LCP)
- Polyethersulfone (PES)
- Polyphenylene sulfide (PPS).

Besides the technical and economic aspects, the report also discusses the market status and future prospects for these films. It consolidates the market data, technology data, and production cost estimates into one convenient-to-use volume. For those who are in market research, polymer development, application, or manufacture of advanced plastic films, the report will serve as a very valuable information source.

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