

CHE 518

POLYMER TECHNOLOGY

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POLYMER TECHNOLOGY

- PLASTIC TECHNOLOGY
- FIBRE TECHNOLOGY
- ELASTOMER TECHNOLOGY

POLYMER TECHNOLOGY

Two factors which have caused the rapidly increasing use of polymers in engineering:

- The interesting intrinsic properties of polymers such as lightness, cheapness, toughness, and corrosion resistance, etc.
- The simplicity, versatility, and rapidity of the shaping operations by which the raw polymer is transformed into useful objects.

The Flow Properties of Polymer Melts

We consider three types of flow:

- Elongational flow
 - Shear flow
 - Behaviour of melt under hydrostatic pressure.
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- Elongational flow



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