

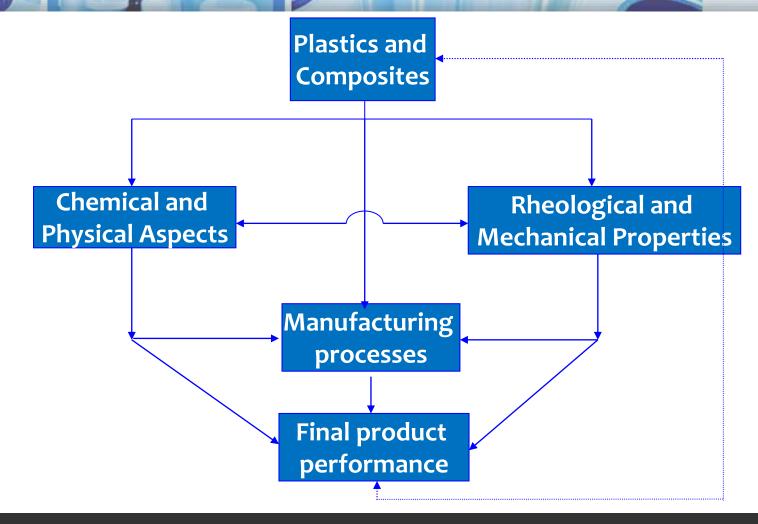


Syllabus

- 1. Introduction to polymer processing. (6hrs)
- 2. Intimate nature of polymers. (6hrs)
- 3. Flow and deformation of polymers (9hrs.)
- 4. Linear viscoelasticity (6 hrs.)
- 5. Introduction to the non-linear viscoelasticity. (3hrs).
- 6. Flow of polymers at transient state. (3hrs)
- 7. Elementary steps in polymer processing (3hrs)
- 8. Mechanical behaviour of plastics and composites (9hrs)

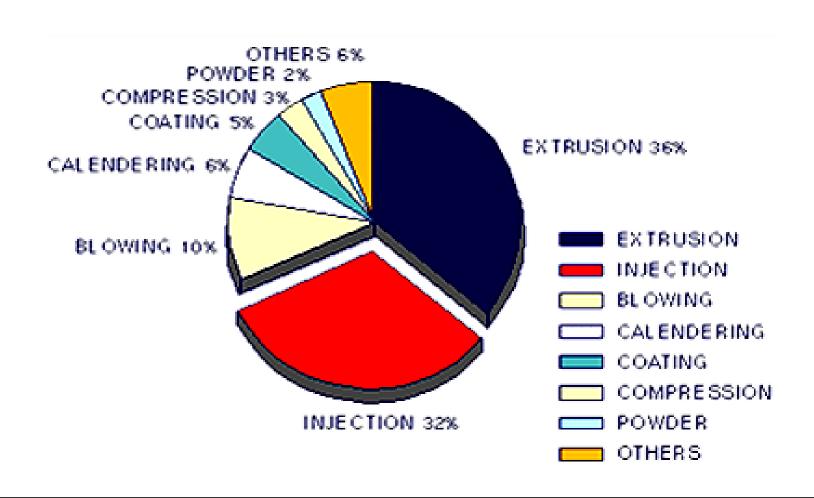


Conceptual map of the course





Polymer Processes





Polymer Processing

Extrusion

Fiber spinning

Film casting

Blown film

Blow molding

Injection

Injection molding

Blow molding

Reaction Injection Molding (RIM)

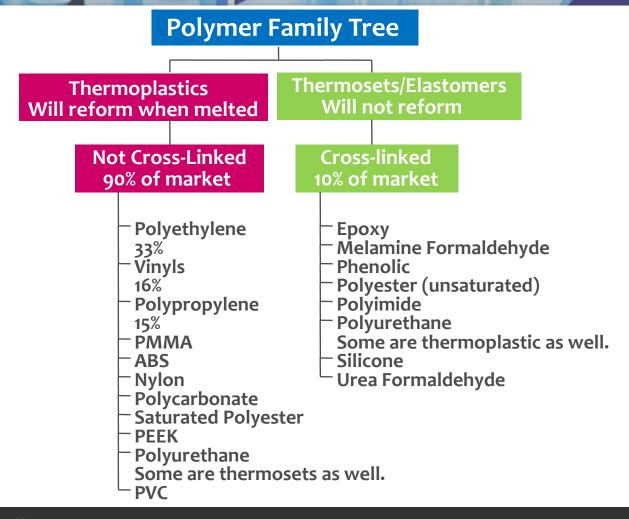
Gas Assited Injection Molding (GAIN)

Others

Rotomolding



Types of Polymers





Polyethylene





Polypropylene









Polystyrene













POLYURETHANE



SILICONE







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