

Polymer Degradation and Stabilization

The chemistry and technology of polymer degradation relates to the engineering issues:

- Material durability - mechanical and aesthetic qualities
- Polymer stabilization - antioxidant and UV stabilizer choices
- Recycling - breakdown reactions of packaging and vulcanizates

Topics for discussion:

A. Degradation Reactions

1. Thermal degradation
2. Oxidative degradation
3. Photo-degradation
4. Hydrolysis (esters, amides)

B. Antioxidant Chemistry

1. Mechanisms of antioxidant function
2. Common industrial antioxidants

Stabilization And Degradation Of Polymers

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