

Polymers

A polymer is a substance composed of molecules with large molecular mass composed of repeating structural units, or monomers, connected by covalent chemical bonds. ... Well known examples of polymers include plastics, DNA and proteins (from WIKIPEDIA).

The leading software package for the modeling of polymerization kinetics is PREDICI.

The rigorous computation of full molecular weight distributions makes Predici first choice for applications like

- High temperature polymerization of Methyl Methacrylate
 - Nitroxide mediated living free radical polymerization of Styrene
 - Characterization of catalysts
 - Kinetic simulation of living carbocationic polymerizations
 - Reverse addition-fragmentation chain-transfer (RAFT)
 - Copolymerization of Vinylidene Chloride and Methyl Acrylate
 - Modeling of free-radical crosslinking copolymerization of Acrylamide and Methrylenebis for Radiation Dosimetry
 - Atom Transfer radical polymerization
 - LDPE product properties and molecular structures
- Not only kinetics, but also polymer particles (PARSIVAL), optimal and online control (OBSERVER) and polymer data are subjects of CiT's products. Please ask for a comprehensive reference list.