

3.091 Solid State Chemistry: Week 15

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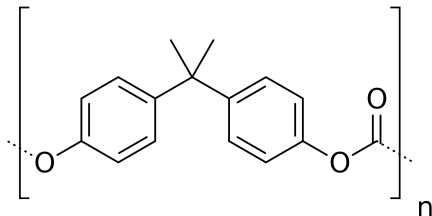
Progress Update

Over the past week I have been introduced to:

- 1 Polymers.
- 2 Polymer architecture and effects on properties.

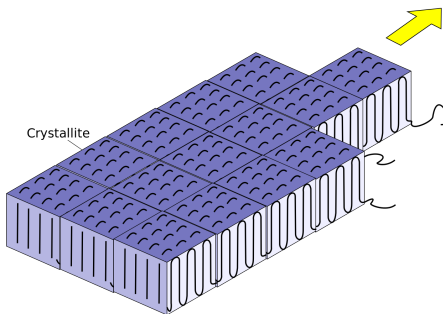
Polymers

Polymers are molecules built out of repeating units known as monomers, consider polycarbonate and its repeating subunit Bisphenol A:



Polymer structure

A solid sample of a polymer has a ratio of amorphous content to crystalline content; consider a crystal polymer sample



If the loops on the top and bottom of where the polymer changes direction are longer, there is more amorphous content, and vice versa. Polymer chains also have the feature of tacticism (refer to notes).