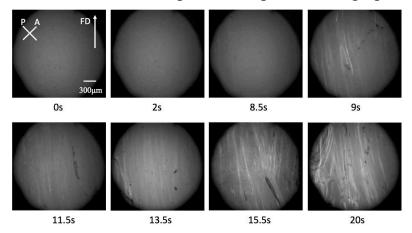
Improvement of Polymers' Properties with Precise Structure Analysis Professor, Go Matsuba

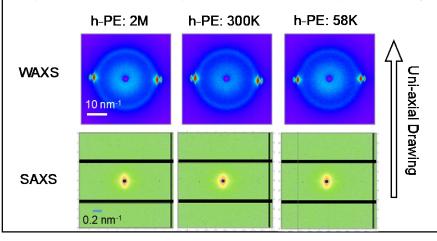
Control of Polymer Crystals

Oriented structure with polarized optical micrographs



nano-metered structure analysis

Crystal structural analysis with in-situ X-ray scattering



Content:

Our group carries out the precise analysis of "hierarchic" polymer structure with wide spatial and time scale to control/improve the polymer properties. We used synchrotron x-ray scattering, neutron scattering, optical/electrical micrograph, DSC and/or FT-IR techniques, viscoelastic measurements. The precise analysis of polymer structure could make polymer properties controlling from nanometer to micron. Especially, we performed on "in-situ" scattering measurements in order to the polymer structural formation process, and then we could improve higher performance, property and strengthening of polymers.

Appeal Points:

We are actively engaged in industry-academic research projects involving our master and undergraduate students' research. Our strength lies in the analysis of not only polymers, but also various materials such as food science and cellulose.

Yamagata University, Graduate School of Organic Materials Science

Research Interest: Polymer Physics, Polymer Properties, Precise Analysis

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