

Supplementary Information

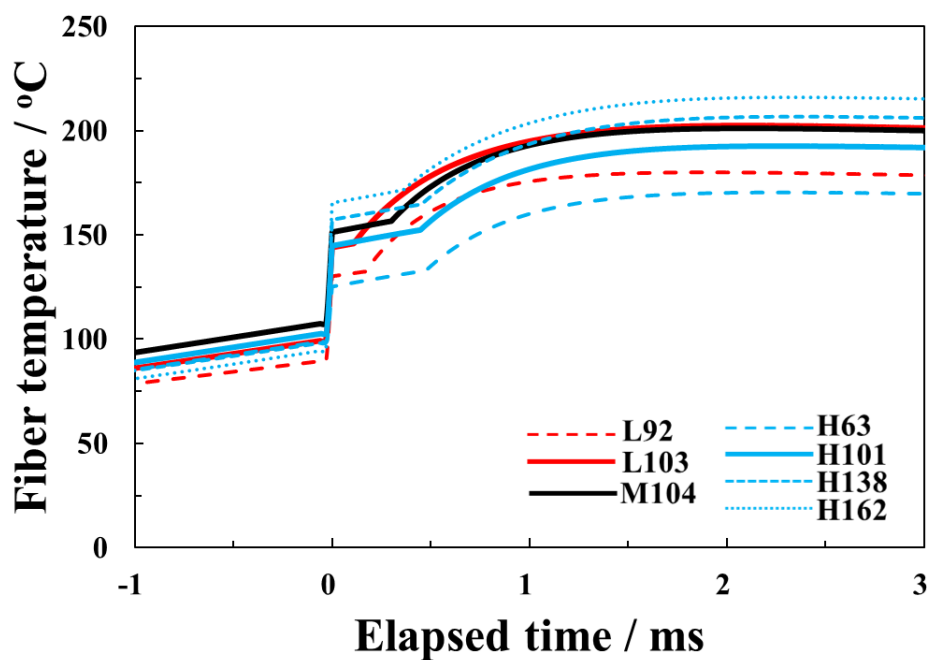


Fig. E-1 All estimated fiber temperature profiles plotted against elapsed time after necking. The polymer (L, M, H) and drawing stress (MPa) are as noted in the figure.

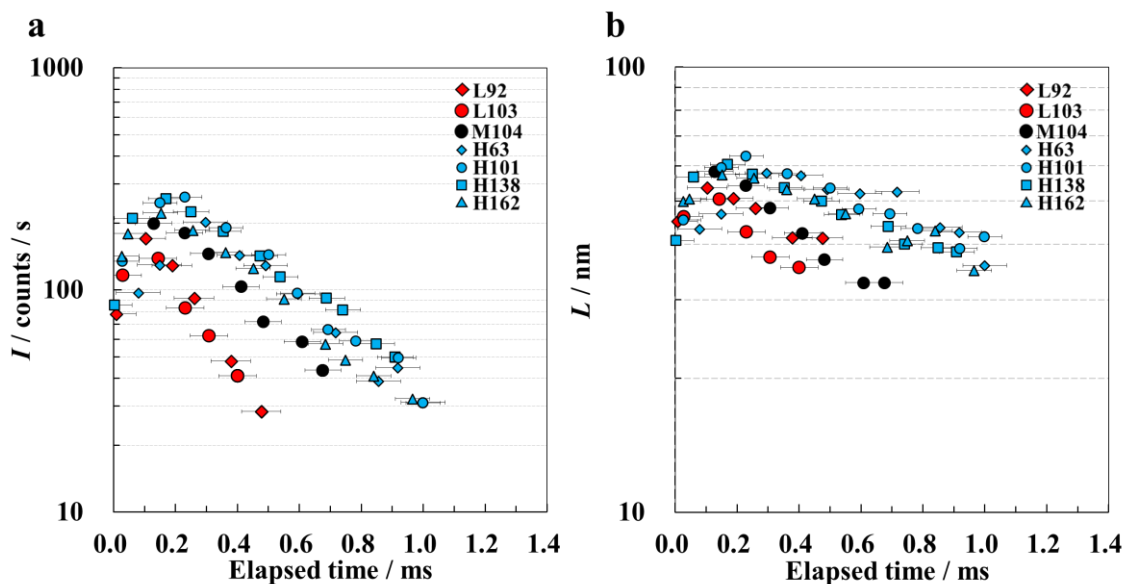


Fig. E-2 **a**, Integrated intensity (I), and **b**, persistence length (L) obtained from the meridional intensity profile of smectic (001') diffraction plotted against elapsed time after necking. The polymer (L, M, H) and drawing stress (MPa) are as noted in the figure.

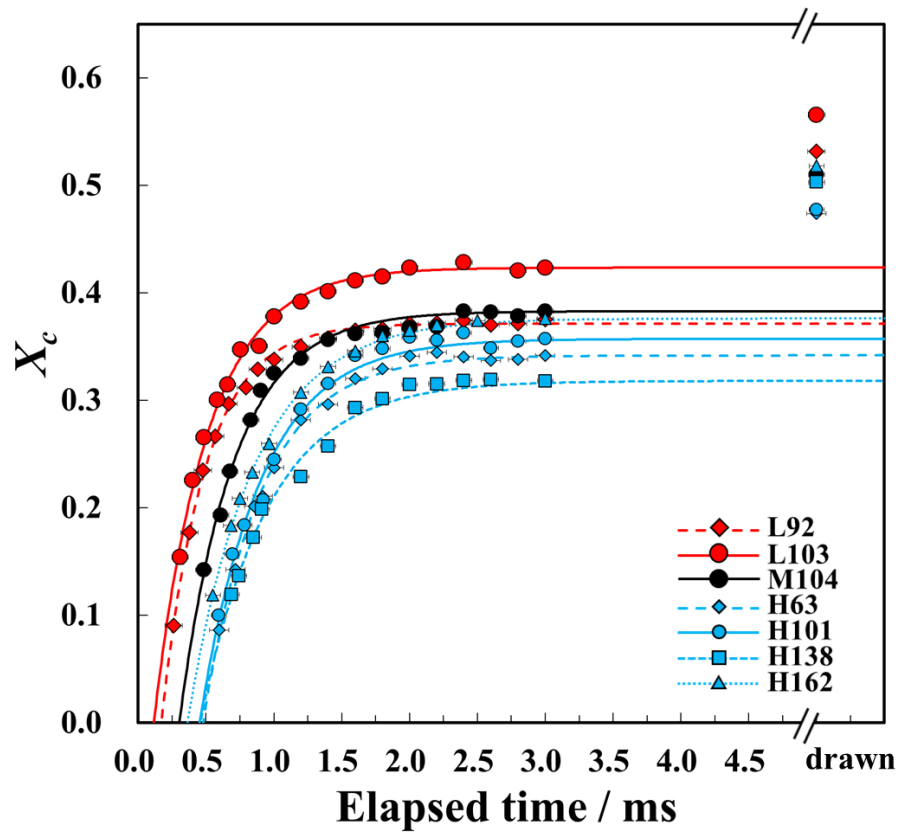


Fig. E-3 Crystallinity indices (X_c) obtained by the integration of equatorial intensity profile plotted against elapsed time after necking. The fitting curves from eq. 2 are also shown. The polymer (L, M, H) and drawing stress (MPa) are as noted in the figure.