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Electronic supplementary information

Orientation direction dependency of cavitation in pre-oriented isotactic polypropylene at large strains

Ying Lu, Glen Thompson, Dong Lyu, Philip Caton-Rose, Phil Coates and Yongfeng Men





Fig. S2. Fitting curves of sum, of new-born crystallites (peak1), and of original crystallites (peak2) in the iPP580K after die-drawn at 140°C using Lorentz-corrected SAXS curve. The fraction of original crystallites is calculated using the equation of A1/(A1+A2) (A1 and A2 represent the scattering peak area of peak1 and peak 2, respectively.).

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According to the fitting results, the scattering area of A1 and A2 are 102539.1639 and 4735.4088 a.u., meaning the fraction of new-born crystallites and un-melted original crystallites are 70.6% and 29.4% in the iPP580K system after die-drawn at 140 °C.