

Supporting Information

Observation of Transition Cascades in Sheared Liquid Crystalline Polymers

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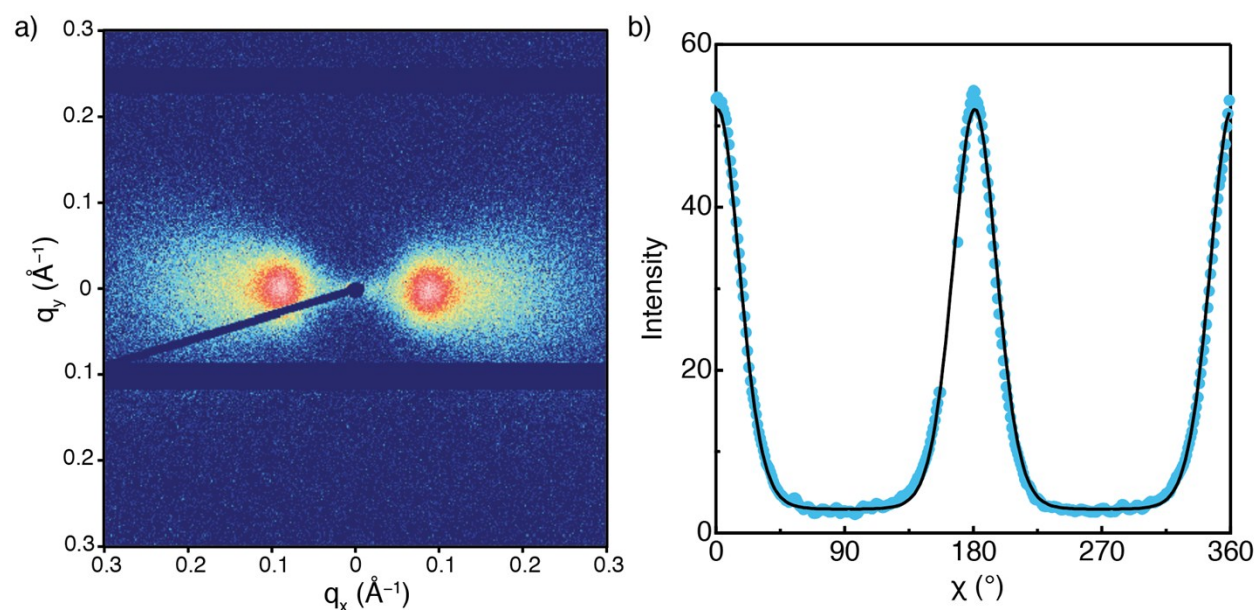


Figure S1. (a) 2D SAXS pattern of an aligned 2.8 wt.% PBDT solution and (b) 1D azimuthal intensity integrated over the q -range between $q = 0.05 - 0.13 \text{ \AA}^{-1}$ and fit with the Maier-Saupe orientation distribution function.¹ The monodomain was prepared by alignment within a magnetic field, and after removal from the field, the monodomain alignment remained due to confinement within the narrow, cylindrical capillary.² The calculated order parameter is $S_{eq} = 0.886 \pm 0.002$.

REFERENCES

1. S. J. Picken, J. Aerts, R. Visser and M. G. Northolt, *Macromolecules*, 1990, **23**, 3849-3854.
2. Y. Wang, J. Gao, T. J. Dingemans and L. A. Madsen, *Macromolecules*, 2014, **47**, 2984-2992.