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Published in:
Small

DOI:
[10.1002/smll.200901719](https://doi.org/10.1002/smll.200901719)

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version
Publisher's PDF, also known as Version of record

Publication date:
2010

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

McNeill, C. R., Asadi, K., Watts, B., Blom, P. W. M., & de Leeuw, D. M. (2010). Structure of Phase-Separated Ferroelectric/Semiconducting Polymer Blends for Organic Non-volatile Memories. *Small*, 6(4), 508-512. <https://doi.org/10.1002/smll.200901719>

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Supporting Information for

Structure of phase-separated ferroelectric/semiconductor polymer blends for organic non-volatile memories**

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Figure S1a. STXM images of unannealed rir-P3HT/P(VDF-TrFE) blends for blend ratios of 10 wt.% (top), 5 wt.%, 2 wt.% and 1 wt.% rir-P3HT.

Figure S1b. STXM images of annealed rir-P3HT/P(VDF-TrFE) blends for blend ratios of 10 wt.% (top), 5 wt.%, 2 wt.% and 1 wt.% rir-P3HT.

Figure S2. Cross-section traces of the 287.2 eV X-ray optical density images of annealed rir-P3HT/P(VDF-TrFE) films.

Figure S3. $5 \times 5 \mu\text{m}$ height and phase AFM images of 1% and 10% rir-P3HT/P(VDF-TrFE) blend films with and without annealing.