

Finizia Auriemma • Giovanni Carlo Alfonso •  
Claudio De Rosa

Editors

# Polymer Crystallization II

From Chain Microstructure to Processing

With contributions by

P.-A. Albouy • G.C. Alfonso • W. Bras • D. Cavallo •  
M. van Drongelen • D.A. Ivanov • H. Li •  
G.W.M. Peters • G. Portale • Z. Qiu • P.C. Roozmond •  
M. Rosenthal • P. Sotta • X. Sun • E.M. Troisi • R. Xin •  
S. Yan • J. Zhang

 Springer

# Contents

<b>Concomitant Crystallization and Cross-Nucleation in Polymorphic Polymers</b> . . . . .	1
Dario Cavallo and Giovanni C. Alfonso	
<b>Epitaxial Effects on Polymer Crystallization</b> . . . . .	55
Rui Xin, Jie Zhang, Xiaoli Sun, Huihui Li, Zhaobin Qiu, and Shouke Yan	
<b>Microstructure of Banded Polymer Spherulites: New Insights from Synchrotron Nanofocus X-Ray Scattering</b> . . . . .	95
Dimitri A. Ivanov and Martin Rosenthal	
<b>Real-Time Fast Structuring of Polymers Using Synchrotron WAXD/SAXS Techniques</b> . . . . .	127
Giuseppe Portale, Enrico M. Troisi, Gerrit W.M. Peters, and Wim Bras	
<b>Strain-Induced Crystallization in Natural Rubber</b> . . . . .	167
Pierre-Antoine Albouy and Paul Sotta	
<b>Non-isothermal Crystallization of Semi-Crystalline Polymers: The Influence of Cooling Rate and Pressure</b> . . . . .	207
M. van Drongelen, P.C. Roozmond, and G.W.M. Peters	
<b>Modeling Flow-Induced Crystallization</b> . . . . .	243
Peter C. Roozmond, Martin van Drongelen, and Gerrit W.M. Peters	
<b>Index</b> . . . . .	295