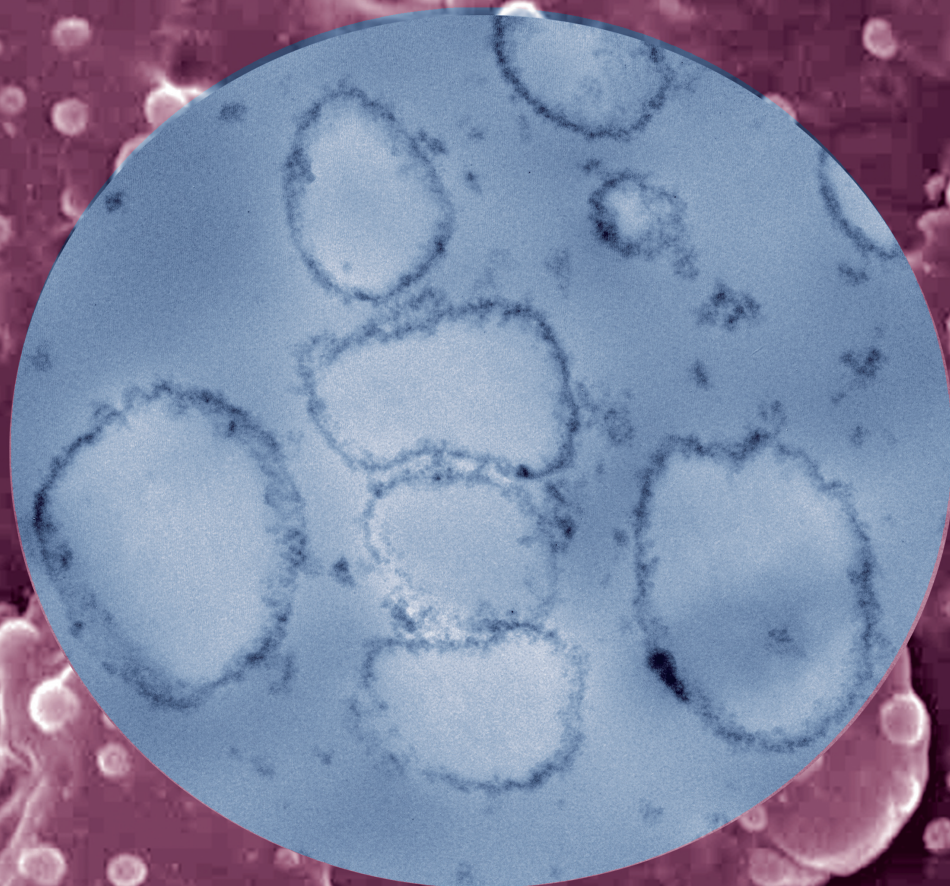


JOURNAL OF POLYMER SCIENCE | PART B

# Polymer Physics

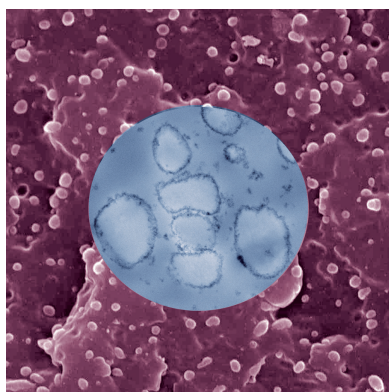


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# Polymer Physics



## NANOSILICA

Nanosilica (NS) particles were found to be outstanding morphological stabilizers for immiscible PP-PA blends. They prevent coalescence regardless of the processing technique applied. Typical sea island morphologies are observed for 80/20 blends with average particle sizes close to 10 microns. NS addition creates a rigid barrier (observed by TEM) along the PP-PA interface that results in reductions of droplet sizes to values below 1 micron, as observed by SEM. While NS is an excellent morphological stabilizer, it cannot promote interfacial adhesion between immiscible PP and PA phases, as demonstrated by rheological measurements on page 1567 by Alejandro J. Müller and coworkers.

## Coming soon

 Look for these important papers in upcoming issues of JPS: Polymer Physics

**Seong Soon Jo, Sung Hwan Cho, Hae Jin Kim, Taewook Nam, Ihn Hwang, Seok-Heon Jung, Richard Hahnkee Kim, Dhinesh Babu Velusamy, Ju Han Lee, Taejoon Park, Jin Kyun Lee, Dae-Eun Kim, Hyungsuk Lee, Hyungjun Kim and Cheolmin Park**  
**High-performance Alternating Current Electroluminescent Layers Solution Blended with Mechanically and Electrically Robust Nonradiating Polymers**

DOI: 10.1002/polb.23796

**Chad R. Snyder, R. Joseph Kline, Dean M. DeLongchamp, Ryan C. Nieuwendaal, Lee J. Richter, Martin Heeney and Iain McCulloch**  
**Classification of Semiconducting Polymeric Mesophases to Optimize Device Postprocessing**

DOI: 10.1002/polb.23801

**Bogdan Zdyrko, Yuriy Bandera, Volodymyr Tsyalkovsky, Christopher Huebner, Jamie A. Shetzline, Parul Rungta, Ryan D. Roeder, Charles Tonkina, Stephen E. Creager, and Stephen H. Foulger**  
**Rational Design of Methacrylate Monomers Containing Oxadiazole Moieties for Single-layer Organic Light Emitting Devices**

DOI: 10.1002/polb.23813

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