



Advances in Polyolefin Nanocomposites

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With the advent of polymer nanocomposites, research on polyolefin nanocomposites has grown exponentially. Correcting the deficiency of a meaningful text on these important materials, **Advances in Polyolefin Nanocomposites:**

- Sums up recent advances in nanoscale dispersion of filler in polyolefins
- Presents a basic introduction to polyolefin nanocomposite technology for the readers new to this field
- Provides insights on the use of technologies for polyolefins nanocomposites for commercial application
- Includes contributions from the most experienced researchers in the field
- Offers insights into the commercial usage of techniques

The text uses theoretical models to illustrate the organic–inorganic interfaces in polyolefins and also provides a detailed description of the recently developed models for property prediction of these nanocomposites. It concentrates on developments with not only aluminosilicate fillers, but also with equally important fillers like layer double hydroxides and nanotubes. The authors review polyolefin nanocomposite technology and methodologies of generation, properties and generation of composite blends, and advances in synthesis of nanocomposites using solution blending methods. The book covers theoretical and experimental considerations of clay surface modification and the importance and effect of various prominent filler categories.

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Editorial Review

About the Author

Dr. Vikas Mittai is Polymer Engineer at BASF Polymer Research in Ludwigshafen, Germany. A graduate of Swiss Federal Institute of Technology in Zurich Switzerland, his research interests include polymer nanocomposites, novel filler surface modifications, thermal stability enhancements, polymer latexes with functionalized surfaces, etc. He has authored more than 30 scientific publications and book chapters, and his research has led to a number of patents.

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