

Nanocellular Polymer Foams as Promising High Performance Thermal Insulation Materials

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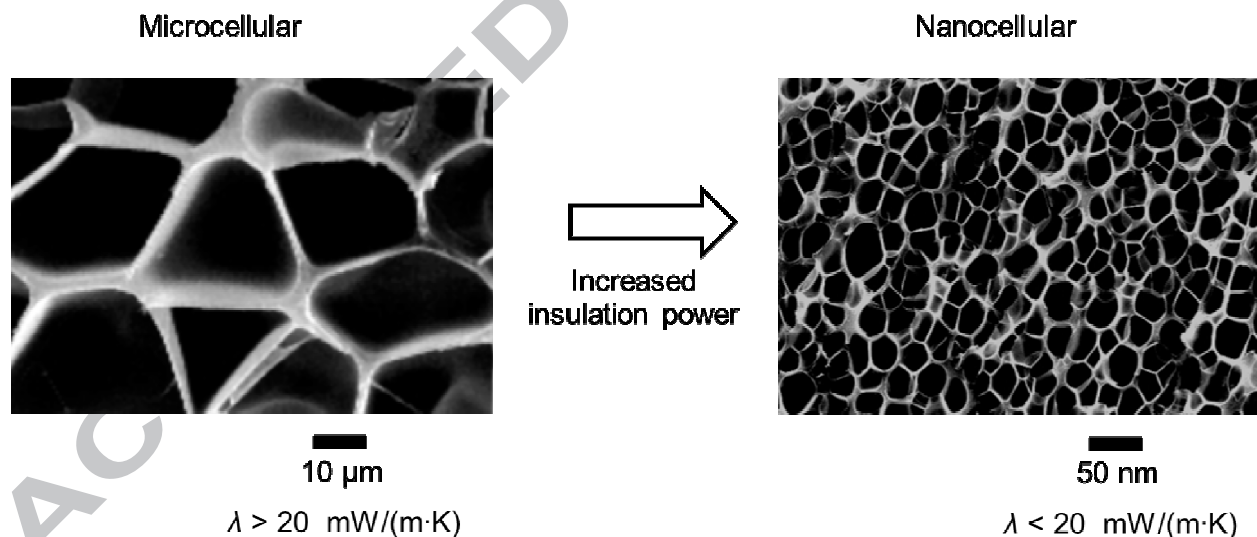
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Highlights

- Review of nanocellular polymers for thermal insulation applications
- Foam cell nucleation at the macromolecular length scale is discussed
- Examples of promising materials prepared by batch foaming are discussed
- Role of surface engineered nucleation agents is emphasized

Graphical Abstract



Keywords: Nanocellular polymers, cell nucleation, thermal conductivity, foam.