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Polymer Foams Handbook Engineering And

Nigel Mills was a Reader in Polymer Engineering in the School of Metallurgy and Materials at the University of Birmingham, UK. He was the author of the first three editions of *Plastics: Microstructure and Engineering Applications*, as well as the *Polymer Foams Handbook*, published in 2007.

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This handbook explores the applications of polymer foams, and the properties that make them suitable for so many applications, in the detail required by postgraduate students, researchers and the many industrial engineers and designers who work with polymer foam in industry.

It covers the mechanical properties of foams and foam microstructure, processing of foams, mechanical testing and analysis (using Finite element analysis).

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Microcellular polymer foams exhibit greatly improved mechanical properties as compared to standard foams due to the formers' small bubble size. Microcellular foams have bubbles with diameters on the order of 10 microns, volume reductions of 30 to 40 percent, and six or seven times the impact strength of solid parts.

Nucleation of microcellular foam: Theory and practice

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A polymer foam is basically a polymer-and-gas mixture, which gives the material a microcellular structure. Polymer foams can be flexible or rigid due to their cell geometry such as open cells or closed cells (Figure 1).