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Written by experienced and accomplished leaders in the field, *Polymeric Foams: Science and Technology* provides comprehensive coverage of the fundamentals, technologies, applications, and recent developments. The authors first outline the basic principles and fundamental foaming mechanisms, covering thermodynamics, kinetics, and the basics of blowing agents and foam formation.

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Polymeric Foams: Science and Technology - Shau-Tarng Lee ...

Polymeric Foams: Technology and Science TABLE 3.5 Summary of Nucleation in Different Foaming Processes Nucleation type Super-Saturation Nucleation Mechanisms Batch Heat Induced

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Homogeneous Continuous Pressure Drop Reaction Over-Saturation Heterogeneous Cavitation
Turbulence/Entrainment Examples Molded Bead Microcellular Extrusion Injection Molding PU
Foaming

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The electrical conductivity of polymer foams is mainly influenced by the electrical conductivity of the matrix polymer composites, foam density, and microstructure of the foams. The advantage the electrical properties can offer is the capability to utilize self-sensing concepts for monitoring strain and/or damage [73]. Electrical resistance change method has been successfully employed as a health monitoring technique to follow strain and internal damages evolution in composite materials.

Polymeric Foam - an overview | ScienceDirect Topics

Abstract. Polymer nanocomposite foams have received increasingly attention in both scientific and industrial communities. The combination of functional nanoparticles and supercritical fluid foaming technology has a high potential to generate a new class of materials that are lightweight, high strength and multifunctional.

Polymer nanocomposite foams - ScienceDirect

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The history of the science and technology of polymeric foams is traced from its early beginnings starting in the late 1920s with latex foam. Two major methods evolved for producing the latter, the Dunlop and Talalay processes, both reaching industrial stages in the 1930s.

History of Science and Technology of Polymeric Foams ...

Polymeric foams: science and technology Shau-Tarng Lee , Chul B. Park , Natarajan S. Ramesh
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Kwang Young Jeong, Constitutive modeling of polymeric foams having a four-parameter modulus function with strain rate sensitivity, Journal of Mechanical Science and Technology, 10.1007/s12206-016-0124-7, 30, 2, (683-688), (2016).

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