

Handbook Of Polymeric Foams And Foam Technology

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3.063 Polymer Physics Spring 2007 Katrine Sivertsen

Polymeric foams are sturdy yet lightweight materials with applications across a variety of industries, from packaging to aerospace. As demand for these materials increase, so does innovation in the development of new processes and products. This book captures the most dynamic advances in processes, technologies, and products related to the polymeric foam market.

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This handbook is designed to support engineers in their efforts to develop practical solutions for industrial design and manufacturing challenges. It describes all classes of polymeric foams, including their chemistry, synthesis, commercial production methods, properties, and applications.

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Polymer foams were first made in the 1930's and -40's, with foamed polystyrene being the first polymer foam in 1931. Polyurethane was invented by Dr. Otto Bayer at the start of the second World War. It was first used as a replacement for rubber and also used as a coating to protect

Polymeric Foams and Foam Technology 2E: Klempner, Daniel ...

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* Complete coverage of the mechanical and design aspects of polymer foams from an acknowledged international expert: no other book is available with this breadth making this a plastics engineer's first choice for a single volume Handbook * Polymer foams are ubiquitous in modern life, used everywhere from running shoes to furniture, and this book includes nine extensive case studies covering ...

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Polymers are among the major hallmarks of 20th-century science, and the explosive outgrowth and tremendous importance of polymeric foams is a testament to their amazing versatility and unique properties. With applications from automotive to acoustic and medical, polymeric foams pervade all areas of

Polymeric Foams and Foam Technology 2E - Hanser Publications

Handbook of polymeric foams and foam technology, Daniel Klempner and Kurt C. Frisch, eds., Hanser Publishers, Munich, Germany, 1992, 442 pp. price: \$148.00.

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Polymeric and metallic foams are used in many structural applications in engineering due to their low density, large elastic deformability as well as energy absorption under impact [1] [2] [3][4][5].

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Handbook of Polymeric Foams and Foam Technology 2nd Edition Edited by Daniel Klempner and Vahid Sendijarevic With contributions by R.M. Aseeva, K. Ashida, J.K. Backus, T. Baumann, R. Broos,

Polymeric Foams - Routledge Handbooks

Jiri George Drobny, in Handbook of Thermoplastic Elastomers (Second Edition), 2014. 4.9.1 Introduction. Polymeric foams or cellular or expanded polymers have played an important role in everyday life. Because of their special characteristics, they became attractive for many industrial and household applications.

Polymer Foams Handbook - ResearchGate

PVC foams --10. Epoxy foams --11. Latex foam and sponge --12. Silicone foams --13. Fluoropolymer foams --14. Wood flour composite foams --15. Phenolic foams --16. Flame retardancy of polymeric foams --17. Syntactic polymer foams --18. Blowing agents for polymeric foams. Other Titles: Polymeric foams and foam technology: Responsibility:

Handbook of polymeric foams and foam technology, Daniel ...

This Handbook reviews the chemistry, manufacturing methods, properties and applications of the synthetic polymer foams used in most applications. In addition, a chapter is included on the fundamental principles, which apply to all polymer foams.

Handbook of Polymeric Foams and Foam Technology

Polymeric foams may be prepared with varying densities ranging from as low as 1.6 to as high as 960 kg/m³. Approximately, 70–80% of all commercially produced polymeric foams are based on polyurethane, polystyrene and polyvinyl chloride.3 Polymeric foams can be classified as flexible, semi-flexible, or semi-rigid, and rigid,

Handbook of polymeric foams and foam technology. (Book ...

Describing all classes of polymeric foams, including their chemistry, synthesis, commercial production methods, properties, and applications, this handbook is designed to support engineers in their effort to develop practical solutions for industrial design and manufacturing challenges.

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Klempner D, Frisch K (2004) Handbook of polymeric foams and foam technology. Hanser, München Google Scholar. 78. Wörthwein H (2014) Method for the manufacture of EPP moulded parts. 1:1-10 Google Scholar. 79. BASF SE (2017) Neopolen P—designed for new ideas. Prod Broch Google Scholar. 80.

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An early review of the subject appeared in 1993 [3]. A more recent account of microcellular foams can be found in the Handbook on Polymer Foams, 2003 [4]. Read more. Publication Authors. Loading ...

1. Introduction 1.1 Polymeric Foams

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