



Polymer Foams: Relationship between Structure and Properties

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Message from the Guest Editor

The analysis of the structure–properties relationship of polymeric foams is one of the pillars of understanding the performance of these outstanding materials and encourage the production and development of novel and advanced polymeric foams and foaming processes. The structure and the properties of cellular materials are the consequence of two main factors: the base formulation (i.e., chemical composition) and the foaming process employed to generate the material. The analysis of the structure–properties relationship is critical for any new development in terms of polymeric matrices, additives, blowing agents, foaming processes, or analytical models accounting for the performance of foams. Facing the challenges defined by the end-users surrounding the main fields of applications of cellular materials requires a strong commitment regarding this particular topic. Therefore, this Special Issue aims to contribute to the connection between the structure and properties of different types of polymeric foams and how they relate to other relevant aspects, such as their chemical composition or the selected foaming process.





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