



Thermoplastic Foams: Processing, Manufacturing, and Characterization

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Message from the Guest Editor

Polymer foams reduced thermal conductivity, high energy absorption and excellent strength-to-weight ratio, have found many applications. Foam is a polymer matrix in which gas is enclosed, giving the material a microcellular structure. Due to the structure, foams can be rigid or flexible, with a closed or open cell structure. The morphology of the foam itself provides unlimited possibilities in imparting new properties to the prepared foams, not to mention the type of polymer material or additives, which may also affect the possibility of obtaining foams with different/improved properties.

However, due to the need to reduce the carbon footprint and the consumption of petroleum-based raw materials, there is a constant search for new raw materials for obtaining polymer composites, including foams, that will meet the growing market requirements and environmental standards. Hence, scientists are making efforts to produce polymer biocomposites, which will partially eliminate the need to use petrochemical raw materials and will give the green light to the use of biomass or recycles.

I am pleased to invite you to submit manuscripts for this Special Issue.





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Message from the Editor-in-Chief

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