



NMR in Polymer Science

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Message from the Guest Editor

Since their early days, Nuclear Magnetic Resonance (NMR) and Polymer Science have had a strong and enduring liaison. Many times, the discovery of a new class of polymers required the development of new NMR techniques or the set-up of new interpretative paradigms, as in the case of the precise determination of the polymer tacticity. On the other hand, the possibility of using both Cross Polarization (CP) and Magic Angle Spinning (MAS) for recording ^{13}C NMR spectra was demonstrated for the first time on polymer samples. Nowadays, NMR is widely used in all different areas of polymer science, from chemical analysis in solution and in the solid state, including but not limited to composition, tacticity, branching and end group determination, to morphology of semicrystalline polymers, blends, micro- and nanoparticles. NMR is also extremely sensitive to molecular mobility thus polymer dynamics and chain conformation in solution or in bulk can be accurately described. Additionally, relevant processes, closer to the final application of the polymer materials, like diffusion of a penetrant or self-diffusion, can be monitored.





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