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(57) Abstract: The present invention relates to a process of forming a nanocomposite. The process comprises the steps of treating pristine clay with water in order to swell the clay, exchanging the water with an organic solvent while still maintaining the clay in a swollen state, treating the swollen clay with a modifier and then mixing the treated clay with a substance selected from the group consisting of monomers, oligomers and polymers and combinations thereof. Where necessary, the substance is polymerised and the solvent is being removed either prior to, during or after the polymerization.

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