Process for making multiphase polymeric film having a lamellar structure with controlled permeability and/or controlled mechanical properties

A process for making a multiphase polymeric film having a lamellar structure with controlled permeability and/or controlled mechanical properties, comprising the steps of:

- preparing a molten blend made of a first polymer phase dispersed in a second polymer phase which is a matrix polymer phase incompatible with the said first phase and of a compatibilizer selected from the group consisting of DEM, MAH, DEM-g-SEBS, MAH-g-SEBS, DEM-g-PP and MAH-g-PP;

- extruding the molten blend through a flat die provided with an exit and stretching the so extruded blend downwards said exit at a preselected stretching ratio to produce the said multiphase polymeric film, and

- solidifying the extruded film sufficiently rapidly to preserve the lamellar structure and the multiphase polymeric films thereby obtained.

Granules with a lamellar structure are obtained by grinding the so obtained multiphase polymeric film and are useful for preparing shaped articles with improved physical properties.