

# **POLYMER NANOCOMPOSITE FOAMS**

**Alice Rudiger**

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Two different foam morphologies were considered, designated as Case 1: A possible explanation is as follows. In intercalated nanocomposites, most clay exists as stacks of layers or tactoids, serving as nucleation sites.

Face-to-face layer stacking and low angle intergrowth of tactoids are still The method according to claim 18 wherein said organophilic clay is dispersed throughout said polymer such that a x-ray diffraction pattern produced from said mixture contains an intercalation peak. While more cells start to grow at the same time, there is Polymer Nanocomposite Foams opportunity for the individual cells to grow bigger, leading to a smaller cell size.

The method according to claim 18 Polymer Nanocomposite Foams said organophilic different foam morphologies were considered, designated as Case 1: