

Title (en)

FOAM MATERIAL COMPRISING LINEAR, ISOTACTIC POLYMERS

Title (de)

SCHAUMSTOFF AUS LINEAREN, ISOTAKTISCHEN POLYMEREN

Title (fr)

MOUSSE ALVEOLAIRE COMPRENANT DES POLYMERES ISOTACTIQUES LINEAIRES

Publication

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Application

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Abstract (en)

[origin: EP1090949A1] The present invention relates to foam materials comprising polymeric material wherein the structure of the polymeric material contains elastic amorphous areas of nano-scale-size reinforced with self arranged crystalline domains of nano-crystals. The polymeric foam material is characterized in that said foam material comprises linear isotactic polymers having a structure of one or several C2 to C20 olefins, the isotacticity of said polymers, due to a statistic distribution of stereoscopic errors in the polymer chain, being within the range of 25% to 60% of ÄmmmmÜ pentad concentration with the proviso that an arbitrary or rather regular sequence of isotactic and atactic blocks is excluded, the polymer having a mean molecular weight Mw within the range of from 100000 to 800000g/mol and a glass temperature Tg of between -50 to +30 DEG C.

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C08J 9/00

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