

Title (en)  
POLYMERIC, SEMICRYSTALLINE THERMOPLASTIC MATERIAL WITH NANOSCALE NUCLEATING AGENT AND HIGH TRANSPARENT MOLDED PARTS PRODUCED THEREFROM

Title (de)  
POLYMERER, TEILKRISTALLINER THERMOPLASTISCHER WERKSTOFF MIT NANOSKALIGEM NUKLEIERUNGSMITTEL UND DARAUS HERGESTELLTE HOCHTRANSPARENTE FORMTEILE

Title (fr)  
MATERIAU POLYMERE SEMI-CRISTALLIN THERMOPLASTIQUE CONTENANT DES AGENTS DE NUCLEATION NANOSCOPIQUES, ET PIECES MOULEES EXTREMEMENT TRANSPARENTES PRODUITES A PARTIR DUDIT MATERIAU

Publication  
**EP 1129130 A1 20010905 (DE)**

Application  
**EP 99947457 A 19991004**

Priority  
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• EP 9907348 W 19991004

Abstract (en)  
[origin: DE19847844A1] Material consisting of a partly crystalline polymer with a dispersed phase comprising solid inorganic particles with a number-weighted average size of less than 100 nm in at least one selected direction for each particle. Independent claims are also included for: (a) molded products, parts of which at least contain material as defined or a mixture containing this material; (b) film with at least one layer containing this material or a mixture thereof; (c) a process for the production of this material by (1) melting the polymer containing the inorganic particles in an extruder and (2) crystallizing from the melt at 30-40 deg C/minute; (d) material obtained by this process.

IPC 1-7  
**C08K 3/00**; **C08K 7/00**; **C08J 5/18**

IPC 8 full level  
**C08J 3/20** (2006.01); **B32B 27/18** (2006.01); **B32B 27/20** (2006.01); **C08J 5/18** (2006.01); **C08K 3/00** (2006.01); **C08K 3/34** (2006.01); **C08K 7/00** (2006.01); **C08K 9/10** (2006.01); **C08L 101/00** (2006.01)

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**B32B 27/18** (2013.01); **B32B 27/20** (2013.01); **B82Y 30/00** (2013.01); **C08J 5/18** (2013.01); **C08K 3/34** (2013.01); **C08K 7/00** (2013.01); **C08K 9/10** (2013.01); **C08J 2377/00** (2013.01); **C08K 2201/011** (2013.01)

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