

Title (en)

METHOD FOR THE PRODUCTION OF SYNTHETIC POLYETHYLENE WAXES WITH HIGH CRYSTALLINITY AND LOW VISCOSITY

Title (de)

VERFAHREN ZUR HERSTELLUNG SYNTHETISCHER POLYETHYLENWACHSE MIT HOHER KRISTALLINITÄT UND NIEDRIGER VISKOSITÄT

Title (fr)

PROCÉDÉ DE PRODUCTION DE CIRES DE POLYÉTHYLÈNE SYNTHÉTIQUES À CRISTALLINITÉ ÉLEVÉE ET FAIBLE VISCOSITÉ

Publication

EP 2097462 A1 20090909 (DE)

Application

EP 07820168 A 20070913

Priority

- EP 2007059614 W 20070913
- DE 102006055729 A 20061125

Abstract (en)

[origin: WO2008061826A1] A method for the production of a polyethylene wax by the polymerization of ethylene in the presence of a Ziegler-Natta catalyst system which is composed of titanium tetrachloride and dialkylaluminum halide, wherein (the polymerization temperature lies in the range of 170 °C to 200 °C, the polymerization is carried out essentially in the absence of solvents, and the Al/Ti mole ratio is smaller than 1.6) a wax results with the following characteristics profile: - Ubbelohde melting point from 115 °C to 125 °C, - penetration value of maximum 1 mm · 10⁻¹; - viscosity at 150 °C of less than 60 mPas; - density from 0.945 to 0.960 g/cm³ at 23 °C; molar mass of less than 1500 g/mol, and - crystallinity of more than 70%.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2008061826A1

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