

Title (en)
EXTRUSION METHOD FOR THE PRODUCTION F STRENGTH-MODIFIED AND PHYLLOSILICATE-REINFORCED THERMOPLASTIC SYSTEMS

Title (de)
EXTRUSIONSVERFAHREN ZUR HERSTELLUNG VON ZÄHMODIFIZIERTEN UND SCHICHTSILIKATVERSTÄRKTEN THERMOPLASTISCHEN SYSTEMEN

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Abstract (en)
[origin: WO2005040254A1] The invention relates to an extrusion method for the production of strength-modified and phyllosilicate-reinforced thermoplastic systems. According to the invention, a production method for nanocomposite materials, using the most economic raw materials, which may be easily worked and which do not require a complicate preparation before processing and with establishment of a starting material composition which meets the requirements for a high-performance nanocomposite material, in particular, with regard to rigidity and strength, may be achieved, whereby a strength modifier in the form of a phyllosilicate is added to the compounded system as an essentially aqueous dispersion and the water is at least partly removed from the compounded system during the extrusion.

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