

Title (en)

BIAXIALLY ORIENTED POLYPROPYLENE FILM, METHOD FOR PREPARING THE SAME AND USE THEREOF

Title (de)

BIAXIAL ORIENTIERTE POLYPROPYLENFOLIE, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG

Title (fr)

FILM DE POLYPROPYLÈNE À ORIENTATION BIAXIALE, SON PROCÉDÉ DE PRÉPARATION ET SON UTILISATION

Publication

**EP 4326787 A1 20240228 (EN)**

Application

**EP 22792109 A 20220401**

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Abstract (en)

[origin: WO2022225450A1] The invention relates to biaxially oriented polypropylene film comprising a composition comprising a polypropylene and a beta-nucleating agent, wherein: the biaxially oriented polypropylene film has a porosity calculated according to the following formula of less than 0.01, alternatively 0.001, alternatively 0.0001, alternatively 0.00001, alternatively about 0-0.00001, Porosity =  $[1 - (d_1/d_0)] \cdot 100$  wherein  $d_1$  is the density of the biaxially oriented polypropylene film after stretching, and  $d_0$  is the density of the biaxially oriented polypropylene film before stretching; and the composition has a crystallization half-time at 136°C in the range of 1 to 10 min, preferably 2-6 min determined by differential scanning calorimetry under isothermal conditions; an MFR2 in the range of 2-10 g/10 min, preferably 2-5 g/10 min; and the polypropylene has a tacticity in the range of 93 to 99 %, preferably 94 to 98 %, a method for preparing the same and an article using the same.

IPC 8 full level

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