

Title (en)

METHOD AND DEVICE FOR DETERMINING THE SWELLING BEHAVIOR OF POLYMER GELS UNDER PRESSURE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG DES QUELLVERHALTENS VON POLYMERGELEN UNTER DRUCK

Title (fr)

PROCEDE ET DISPOSITIF POUR DETERMINER LE GONFLEMENT DE GELS POLYMERES SOUS PRESSION

Publication

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Application

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Abstract (en)

[origin: WO0239093A1] The invention relates to a method for determining the swelling behavior and the swelling kinetics of super absorbent materials (9) such as polymer gels, whereby a defined volume of dry super absorbent materials (9) is introduced into a measuring vessel (7), and a pressure force (12) is exerted onto the super absorbent material (9) by means of an element (4) that can be displaced inside the measuring vessel (7). The expansion of the super absorbent material (9) inside the chamber (14) is continuously detected by means of a non-contact detection of the change in height of a tube (4), which delimits the chamber (14), is guided inside a measuring vessel (7), and which is provided with a height marking (6).

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