

Title (en)

ARTICLES WITH LOW HYDROGEN PERMEATION AND THEIR USE

Title (de)

ARTIKEL MIT GERINGER WASSERSTOFFPERMEATION UND DEREN VERWENDUNG

Title (fr)

ARTICLES À FAIBLE PERMÉATION DE L'HYDROGÈNE ET LEUR UTILISATION

Publication

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Application

**EP 08785003 A 20080723**

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Abstract (en)

[origin: CA2694246A1] The invention relates to use of a moulding, moulded from a composition encompassing (A) a thermoplastic, and a coating provided thereon, moulded from a composition encompassing a component (B) which has been selected from a polysilazane of the formula (- SiR'R''-NR'''-)n, where either R', R'' and R''' = -H or R' and R''' = -H; and R'' = -methyl, as articles with low hydrogen permeation, where the permeation coefficient of the article with respect to hydrogen gas at from 25 to 30°C is preferably smaller than 10 cm<sup>3</sup> mm/ m<sup>2</sup> d atm, measured in accordance with DIN 53380-3 and ASTM D 3985, and their microhardness is greater than 150 N/mm<sup>2</sup> to DIN EN ISO 14577. The invention further relates to articles with low hydrogen permeation encompassing a moulding moulded from a composition encompassing (A) a thermoplastic, and a coating provided thereon, moulded from a composition encompassing a component (B) which has been selected from a polysilazane of the formula (- SiR'R''-NR'''-)n, where either R', R'' and R''' = -H or R' and R''' = -H; and R'' = -methyl

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