

Title (en)
RUBBER-TYPE HYDROGENATED VINYL POLYBUTADIENES

Title (de)
KAUTSCHUKARTIGE HYDRIERTE VINYL-POLYBUTADIENE

Title (fr)
VINYLE-POLYBUTADIENES HYDROGENES DE TYPE CAOUTCHOUC

Publication
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Application
EP 04733789 A 20040519

Priority

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- DE 10324304 A 20030530

Abstract (en)
[origin: US2004242797A1] The hydrogenated vinyl-polybutadienes according to the present invention have degrees of hydrogenation of from 20 to 100%, Mooney viscosities in the range of from 10 to 150 Mooney units (ML 1+4/100° C.), glass transition temperatures (Tg) of <=-57° C. and enthalpies of fusion (DeltaH) of <=30 J/g and having a microstructure with a) from 0 to 44 wt. % 1,2-vinyl-butadiene units of the formula b) from 20 to 64 wt. % 1,2-butylene units of the formula c) from 0 to 60 wt. % 1,4-butenylene units of the formula and d) from 0 to 60 wt. % 1,4-butylene units of the formula are outstandingly suitable for the production of rubber molded bodies of any kind, especially for the production of industrial rubber articles and of tires and tire components. The rubber molded bodies produced from the hydrogenated vinyl-polybutadienes according to the present invention have good resistance to ageing and good elasticity at low temperatures.

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