

Title (en)

CATALYST SYSTEM FOR PRODUCING DIENE AND VINYL AROMATIC HOMOPOLYMERS AND COPOLYMERS BY ANIONIC POLYMERISATION

Title (de)

KATALYSATORSYSTEM ZUR HERSTELLUNG VON HOMO- UND COPOLYMEREN VON DIENEN UND VINYLAROMATEN DURCH ANIONISCHE POLYMERISATION

Title (fr)

SYSTEME CATALYSEUR DESTINE A LA FABRICATION D'HOMOPOLYMERES ET DE COPOLYMERES DE DIENES ET DE VINYLAROMATES PAR POLYMERISATION ANIONIQUE

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Abstract (en)

[origin: WO2005035599A1] The invention relates to a method for producing, if necessary, coupled non-aligned polymers based on conjugated dienes or copolymers based on conjugated dienes and vinyl aromatic compounds by anionic polymerisation in an inert organic solvent in the presence of a catalyst system which consists of (a) at least one lithium organic compound in the form of an initiator, (b) at least one polar multidentate acetal compound in the form of a modifier and (c) at least one type of alcoholate, if necessary. The inventive method makes it possible to advantageously produce diene and vinyl aromatic homopolymers and copolymers provided with a specific structure, in particular at high polymerisation temperatures, thereby reducing reaction duration.

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