

Abstract

The invention relates to a paste-like mass that can be used in electrochemical structural elements, comprising a heterogeneous mixture of (1.) a matrix (A) containing at least one organic polymer, precursors thereof, or prepolymers thereof, or consisting of said components, (2.) an electrochemically activatable inorganic material in the form of a solid substance (B), said material not being soluble in said matrix and in water, and (3.) a material (C) which is capable of improving the transport of a liquid electrolyte into and the storage thereof within the structural element, with the proviso that said material (C) is not a material which simultaneously has conductivity improving properties, if said solid substance (B) is a material that is suitable as an electrode material.

From said mass, layers (films) and electrochemical composite layers can be produced that are subsequently impregnated with an electrolyte solution preferably of electrolytes dissolved in plasticizers for said matrix (A). In this manner, electrochemically active structural elements such as batteries and accumulators are obtained.



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