

Title (en)

COMPONENTS, SEMI-FINISHED PRODUCTS AND SECTIONS, CONSISTING ENTIRELY OR PARTIALLY OF PLASTIC

Title (de)

BAUTEILE, HALBZEUGE UND PROFILE, GANZ ODER TEILWEISE AUS KUNSTSTOFF

Title (fr)

PIECES, ARTICLES SEMI-FINIS ET PROFILES, ENTIEREMENT OU PARTIELLEMENT EN MATIERE PLASTIQUE

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Application

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Abstract (en)

[origin: WO03027172A1] The invention relates to the domain of plastics processing and refers to components, semi-finished products and sections, which can be used, for example, in tribological applications as plain bearings or slide blocks. The aim of the invention is to produce in one process step components, semi-finished products and sections, consisting entirely or partially of plastic, which combine the mechanical characteristics of a construction material at their core with the specific characteristics of a functional material for the respective application and exhibit an improved composite stability. This is achieved by components, semi-finished products and sections, consisting entirely or partially of plastic and containing a combination of a compound (A), in which polyamide and perfluoroalkyl substances are coupled by means of chemical bonds and a polyamide construction material (B), whereby the latter (B) is completely or partially covered with the compound (A) and whereby in the composite boundary surface, chemical bonds exist between (A) and (B), in addition to the adhesion and interdiffusion coupling mechanisms known per se.

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