

Abstract

Process for incorporating carbon particles into a polyurethane surface layer

The invention relates to a method for introducing electrically conductive carbon particles into a surface layer comprising polyurethane. These carbon particles can in particular be carbon nanotubes. In the method
5 according to the invention, a solution of non-aggregated carbon particles having a mean particle diameter of $\geq$ 0.3 nm to $\leq$ 3000 nm acts in a solvent upon a surface layer comprising polyurethane. The solvent is able to cause the maceration of a surface layer comprising polyurethane. The dwell time is measured such that it is not sufficient to carry the polyurethane over into the solution. The invention furthermore relates to a polyurethane layer that comprises electrically conductive carbon particles and can be obtained by means of a
10 method according to the invention. The invention likewise relates to a polyurethane object having surface layer comprising electrically conductive carbon particles, obtainable by a method according to the invention.

FIGURE 4