

Abstract

- The invention relates to a weather-resistant titanium dioxide pigment that is particularly
5 suitable for use in engineering plastics, as well as to a method for its manufacture.
The titanium dioxide is provided with a surface coating that, from the inside to the outside,
displays a dense SiO_2 layer, an Al_2O_3 layer and an organic layer, where the maximum total
 Al_2O_3 content is 2.4% by weight and the organic layer contains at least one compound from
the group comprising H-siloxanes, silicone oils and organically functionalised polysiloxanes.
10 The manufacturing method is characterised in that an aqueous suspension of Al-doped
titanium dioxide particles is milled in an agitator mill, and a dense SiO_2 layer and an Al_2O_3
layer are then applied in batch mode, after which an organic layer is applied that contains at
least one compound from the group comprising H-siloxanes, silicone oils and organically
functionalised polysiloxanes.