

GBprotect plastics UV-protection coating

*NanoTechnology
for excellent surfaces*



Being used outdoors, plastic components are exposed to the ultraviolet radiation of the sunlight and detrimental chemical substances in the atmosphere. GBneuhaus provides a range of innovative nano-coatings, including the **GBprotect plastics** application that affords protection against these hazards as well as it makes sure that high-quality components retain their optical features and maintain their performance.

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GBprotect plastics

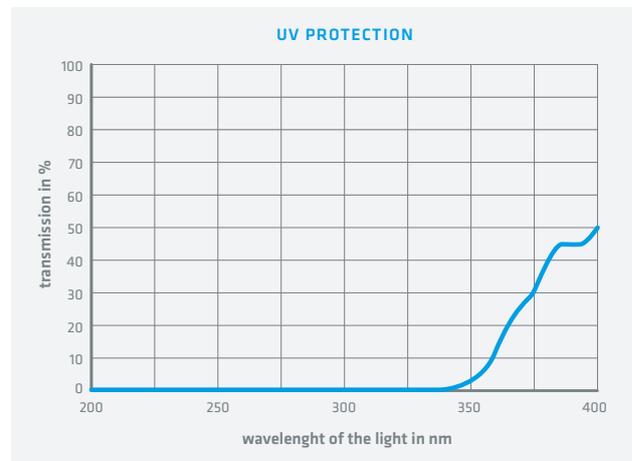
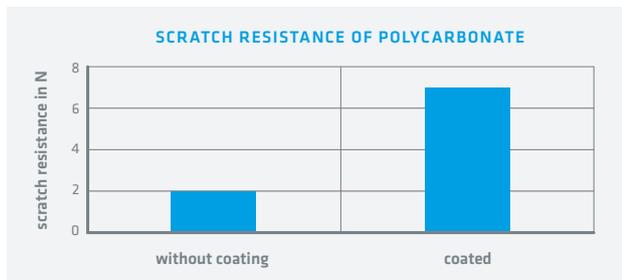
UV-protection coating

SUBSTRATES

- » plastics (polycarbonate, ethylene tetrafluoroethylene or polycarbonate films)

PROPERTIES

- » protection against UV radiation of the sunlight and detrimental substances in the atmosphere
- » reduction of the short-wave UV spectrum ($\lambda < 320$ nm) to less than 1 %
- » reduction of the UV spectrum ($320 \text{ nm} < \lambda < 350$ nm) to less than 10 %
- » filter effect within the visible light spectrum on request
- » combinable with antimicrobial (SANPURE®) and/or hydrophobic features
- » maximum temperature load: 200 °C
- » customisation to specific conditions
- » film thickness from 150 up to 1.500 nm
- » no change in haptic quality of substrate
- » scratch-resistant (scratch hardness according to DIN EN ISO 1518 up to 20 N; pencil hardness according to DIN EN ISO 15184 up to 10 H)
- » abrasive hardness (cross-cut test according to DIN EN ISO 2409)
- » chemical-proof to customary detergents and disinfection methods
- » mechanically flexible



TECHNOLOGY

- » dip coating or spraying
- » application process is defined individually according to geometry and requirements of the substrate

COATING

- » certified according to REACH and RoHS
- » certified according to ISO 9001:2015; processes comply with IATF 16949
- » environmental management conforms to ISO 14001



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