



PHYSICAL VAPOUR DEPOSITION

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PVD coating is used when functional areas or exterior/interior vehicle parts made of plastic are supposed to have a metallic shine or need to be turned into something special in terms of design. PVD stands for **physical vapour deposition** and is an environmentally friendly, emission-free thin-film method with a wide variety of colour options. For brilliant results, PVD coating can be combined with UV coating. A novelty in PVD are **radar-transparent coatings** developed by BENSELER.

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PROCESS FLOW

The plastic parts to be coated are cleaned with CO₂ and freed from dust with ionized air in fully automatic systems, and any unevenness is levelled out with a basecoat in the coating system. The PVD coating is subsequently applied in a high vacuum by ion bombardment of metal targets. Just as with DLC coatings, different colour nuances can be achieved by adding reactive gas.

CHARACTERISTICS

- coating systems can be used as basecoat and protective coating (2K PUR, UV coatings)
- applicable to plastic parts made from ABS, ABS/PC, PC, PA
- coating thicknesses between 30 nm and 350 nm possible
- machining with laser possible (daytime/nighttime design)
- capacitive functions
- chromium(VI)-free, recyclable, emission-free
- meets technical delivery requirements of the automotive industry



LOCATION:

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