

## Our Expertise for Your Success

**Auer Lighting is your reliable partner for high-tech coatings and glass elements.**

- Designing optical components with and without coatings
- Tailored coating designs
- Simulation and verification of optical elements
- Adaption of our vast metrological equipment to your needs
- Advanced process capabilities towards highly reliable delivery
- Rapid prototyping supporting your time to market needs

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## COATINGS ON PLASTIC



# Protected Metal and Dichroic Coatings on Plastic

## Metal Coatings

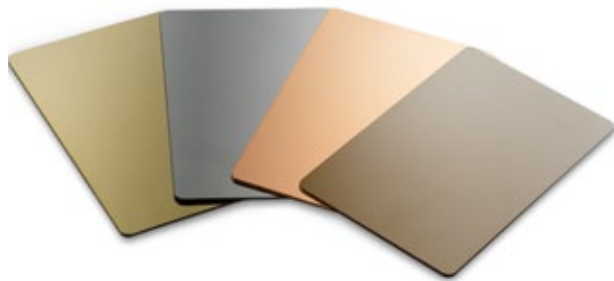
Auer Lighting uses a load lock sputtering system for depositing metal layers. The coatings can be protected by a  $\text{SiO}_2$  layer. The technology is well suitable for coatings on plastics.

## Fields of Application

- EMV Coatings
- ESD Coatings
- Reflection of the VIS spectrum
- IR reflection
- Decorative Coatings

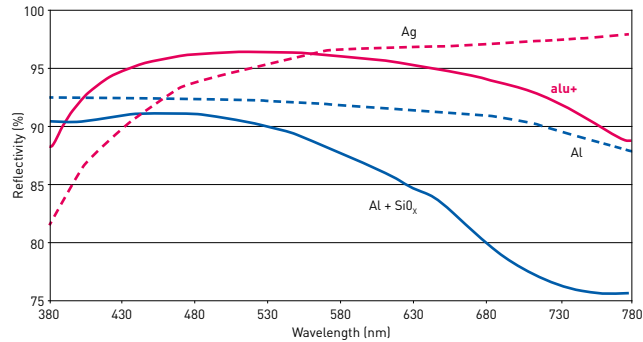
## Coating Materials

- Aluminium
- Chromium
- Titanium
- Brass
- Others on request



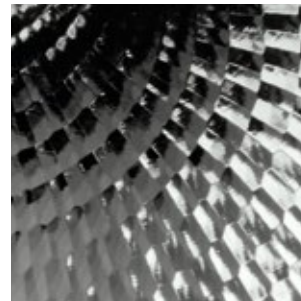
## Aluminium + Metal Coatings: alu+

Your specific application can be upgraded beyond a reflectivity of 96%. This requires a metal coating that is protected and enhanced by a dichroic coating.



## Substrate Choices

- Polycarbonate (PC)
- Acrylnitril Butadien Styrol (ABS)
- Polyamide (PA)
- Polyphenylene sulfide (PPS)
- Polyethylenimine (PEI)
- Polymethyl methacrylate (PMMA)
- and many more



## Dichroic Coatings

Dichroic coating systems can be adapted to the spectral and optical requirements of your needs. The coatings are extremely durable.



## Properties

- Durable
- Customized wavelength range
- Highly reflective (up to 96%) or broad band AR (anti-reflective) coatings

## Reflectivity of different Coatings

