



## Coatings for plastics optics

The application space for plastic optics is expanded through the use of coatings.

Coatings can improve performance such as with antireflection (AR) coatings or enable additional functionality such as mirrors, filters or beamsplitters. They also serve to modify the surfaces providing protection against mechanical, chemical or biological environmental influences or improving appearance.

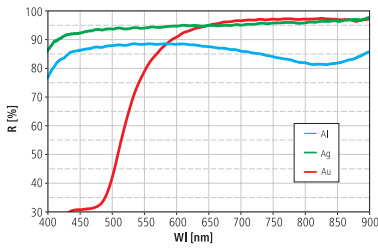
JENOPTIK Polymer Systems GmbH is your partner with answers for all your questions regarding development and fabrication of coated plastic optical components and systems.



# Custom coatings for plastic optics:

## Mirror Coatings

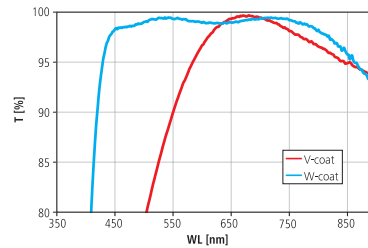
Metallic mirror coatings



Reflecting metal layers with optional protection layer. We use aluminium, silver and gold layers. Also suitable for structures with high aspect ratio and steep end walls (e.g. reflectors).

## Antireflection Coatings

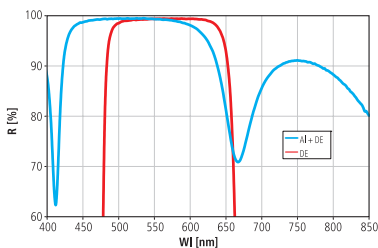
Broadband and single line AR coatings



Used to minimize unwanted reflections on optical components or ghost images in optical systems. Used as broad band coating (W-coat) or for a single wavelength (V-coat)

## Mirror Coatings

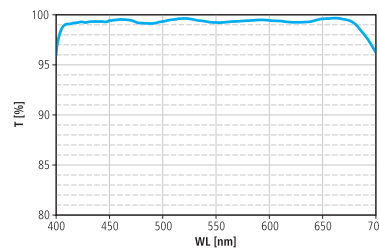
Dielectric mirror coatings



Reflectors with extremely high reflection for a limited wavelength region. Dielectric or metal reflectors with dielectric enhancement.

## Scratch resistant AR-Coatings

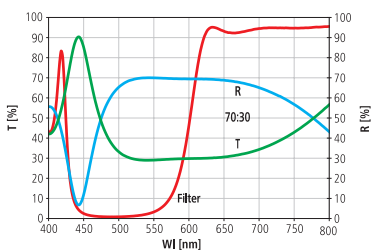
ARhard® coatings\*



Dielectric broadband antireflection coatings with high physical layer thickness and patented layer design. PVD-coating with increased scratch-resistance.

## Beamsplitter and filters

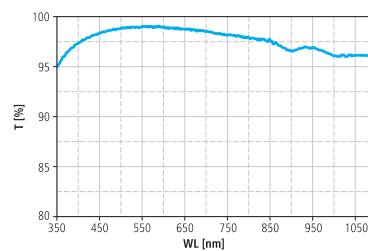
Dielectric beamsplitter coatings and filters



Beamsplitter coatings for splitting of light or laser radiation, an optical path or for defined attenuation of the light. Filters are used to select certain wavelength regions.

## Nano-Motheye

Nanostructures with AR effect on Acrylic\*



For broadband antireflection effect on Acrylic. Direct structuring in a vacuum process without lithography or holographic treatment. Optionally with hard coat.

\* Patented process (FhG IOF)

Our experts support you in:

- Optimization of the component design for cost-saving mass production
- Selection of suitable materials, feasibility studies
- Development of coating technologies and designs according to customer requirements
- Process optimization starting from cleaning and coating to packaging and shipping
- Development of test and measuring procedures according to ISO, DIN or MIL standards

We also offer job order coating and support you with our experience in optimizing all processes around coating.



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