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# SCHOTT NG4, 0.9 OD, 50mm Sq., Absorptive ND Filter

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## Product Downloads

### General

Neutral Density Filter **Type:**

### Physical & Mechanical Properties

50.0 x 50.0 **Dimensions (mm):**

50.00 **Length (mm):**

Thickness (mm):

1.70 (nominal)

Width (mm):

50.00

Dimensional Tolerance (mm):

±0.38

## Optical Properties

Optical Density OD (Average):

0.9 ±0.03 @ 546nm

Glass/Filter Number:

SCHOTT NG4

Coating:

Uncoated

Index of Refraction (n<sub>d</sub>):

1.51

Surface Quality:

80-50

Transmission (%):

12.59 ±0.76% @ 546nm

Wavelength Range (nm):

400 - 700

## Material Properties

Transformation Temperature (°C):

483

## Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

Reach 240:

Compliant

## Product Details

- Tightly Controlled Transmission Specifications
- NG4, NG9, or NG11 Glass Types
- Specified Optical Densities from 0.15 to 5.0
- Provide Even Light Attenuation in the Visible Spectrum
- [SCHOTT NG Gray Glass](#) Also Available

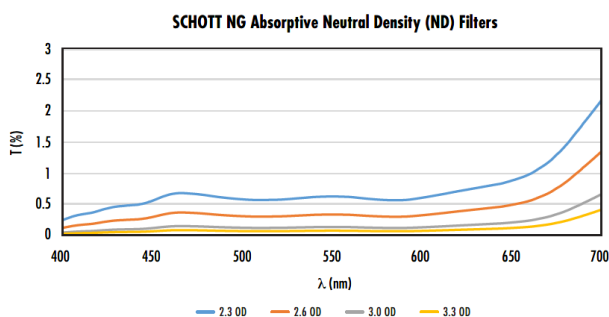
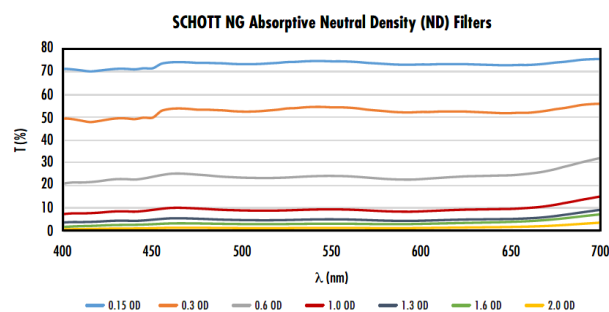
SCHOTT NG Absorptive Neutral Density (ND) Filters consist of NG4, NG9, or NG11 SCHOTT glass types and provide even light attenuation through absorption in the visible spectrum. These filters are manufactured to achieve a specified optical density, ranging from 0.15 to 5.0, to simplify integration into optical systems. SCHOTT NG Absorptive Neutral Density (ND) Filters are available in a standard 50 x 50mm size and multiple filters can be stacked to achieve custom optical densities. Custom sizes from 5 to 160mm as well as custom optical densities or transmission values for specific wavelengths are available on request; for more information, visit our [Colored Glass Filter Manufacturing](#) capabilities webpage. [SCHOTT NG Gray Glass Filters](#) are also available.

Each filter lot is measured and thickness is adjusted to meet the specified transmission value at 546nm. Variations in filter lot performance can result in variations in nominal thickness; however, the transmission variations between lots will be minimal.

## Filter Simulation Software

[Click here](#) to download SCHOTT's colored glass filter calculation program which can be used to calculate the internal transmittance and external transmission of each SCHOTT glass type. The program can simulate the performance of individual filters with user specified thickness or of stacked filters with varying glass types and thicknesses.

## Technical Information





**Quote Your Size**

**Compatible Mounts**