



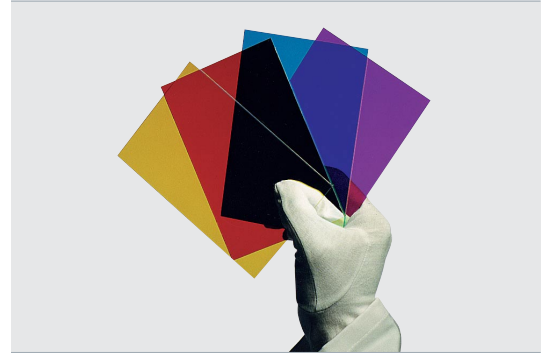
Ocean Thin Films has over 50-years experience in the development and production of high performance thin film coatings, optical components and electro-optical assemblies that enable technologies in the medical device, defense, entertainment and sensing markets. We partner with our customers to create products exhibiting exceptional spectral performance and superior stability in harsh environments -- supporting you from rapid prototyping through high volume production. ■

Dichrolight™ - Dichroic Filter

High performance color filters

Dichroic color filters are dielectric filters which transmit certain regions of the visible spectrum and reflect others with a high degree of efficiency. Compared to color glass or gelatine filters, dichroic filters are virtually absorption free, highly transmitting and with optimum color saturation. Filters are mechanically and chemically resistant without fading and aging.

Lighting designers are impressed by the Dichrolight™ filters from Ocean Thin Films. OEM lighting manufacturers rely on Dichrolight™ filters since more than 20 years to color their fixtures used in entertainment lighting, architectural lighting and product presentation. Produced by reliable Ocean Thin Films e-beam and patented sputtering processes the Dichrolight™ filters are available on flat and curved substrates, as full colors, Gobos or as patterned CMY filters.



Benefits

- Highly saturated colors
- Non-ageing and fading colors, reducing maintenance costs
- Highest scratch resistance and mechanical stability
- Absorption-free, preventing thermal stress caused by high intensity light sources
- Thermal stability up to 400°C tolerances and high reproductability
- Color range which meets the latest trends
- High volume production capabilities
- No thermal shift in case of sputtered filters
- Sharp spectral separation between transmission and reflection with high transmission and reflection values
- Very high color purity
- High brightness
- Robust, easy to clean

Technical Data

Colors

Ask for customized colors

Dimension

Dimensions on request

Glass type

Heat resistant Borosilicate glass

Operation Temperature

Up to 400°C

Applications

Ocean Thin Films Dichrolight™ filters are the first choice when it comes to entertainment lighting in shows, theatres, stages and architectural lighting. A selection of modern, new designed colors meet the requirements of lighting effects. Gobos, which require stable colors on heat resistant substrates as well as fiber optic illumination devices achieve premium performance using Dichrolight™ from Ocean Thin Films.

- Entertainment lighting
- Optical sensors
- Readers, Barcode scanners
- Color printers, color enlargers
- Optical measuring instruments, Spectroscopy
- High end luminaires
- Color TV cameras
- Fotofinishing
- Dental Polymerisation
- Signalisation

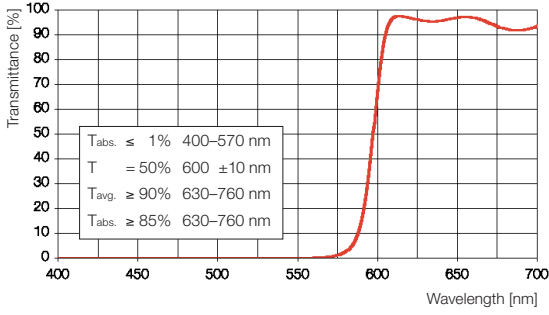


Additive color filters

Subtractive color filters

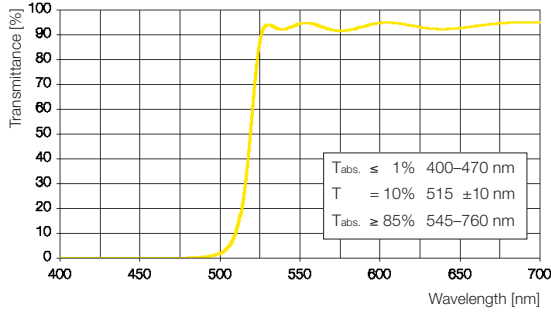
DT-RED STD

AOI = 0°



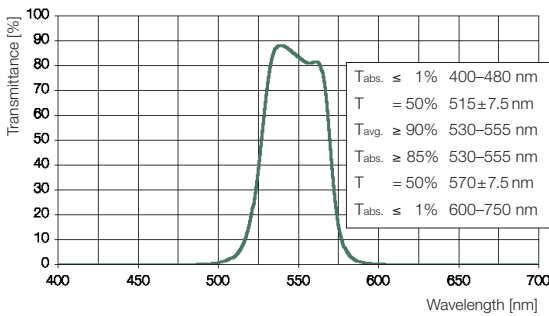
DT-YELLOW STD

AOI = 0°



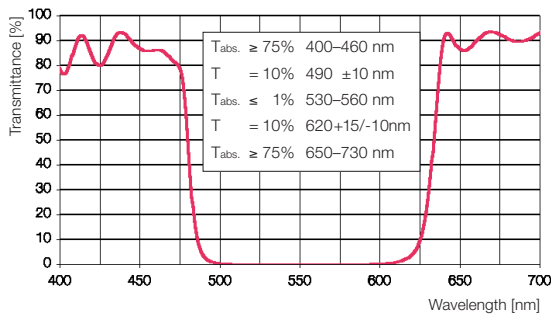
DT-GREEN STD

AOI = 0°



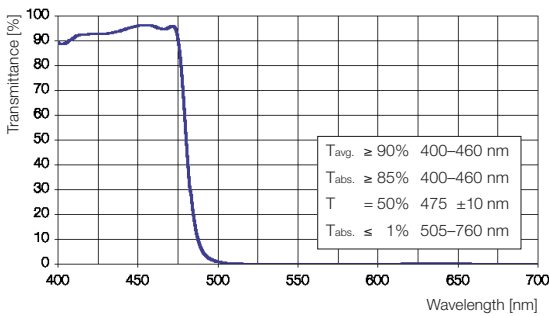
DT-MAGENTA STD

AOI = 0°



DT-BLUE STD

AOI = 0°



DT-CYAN STD

AOI = 0°

