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General Description

Applied Coatings Optivex™ UV Blocking Dichroic Filter is one of the most effective ways to block UV radiation while transmitting high quality visible light.

Applications

By eliminating virtually all UV radiation, it is possible to substantially retard photochemical degradation in textiles, watercolors, historical documents, works of art, and other sensitive display items. The combination of excellent optical characteristics and rugged durability makes this filter ideally suited for the following applications:

- Fine Arts Museums
- Natural History Museums
- Commercial Art Galleries
- Antiquarian Collections
- Retail Establishments
- Private Collections

Product Size Information

Any size up to 10" x 30". Special sizes available on request.

Features

Below is a brief listing of some of the features of Applied Coating's Optivex™ UV filter:

- High UV Blocking
 - reduces photochemical degradation
 - enables the use of a broader range of light sources
 - allows the increase of light levels without the risk of damage to display objects
- Filter is applied to borosilicate glass for heat resistance
- Dichroic filters are extremely durable, resisting abrasion and cracking
- Filters are stable in the presence of heat, meaning color consistency and performance stability

- Non-absorbing prevents filter-damaging heat build-up
- Lasts significantly longer than plastics or gels
- Sharp filter cutoff means almost no color distortion in the visible

Spectral Characteristics

The Applied Coating's Optivex™ UV filter uses thin film interference phenomena to achieve significant selective rejection ratios (Over 10,000:1 for tungsten halogen), resulting in the following characteristics:

- Average UV blocking exceeds 99% for all radiation below 400 nm
- Average color rendering index of 95%
- Photopic (human eye response) efficiency exceeds 85%
- Average visible light transmission exceeds 85%

*Optivex™ Ultraviolet Dichroic Filter
Transmittance Curve
Transmission %*

