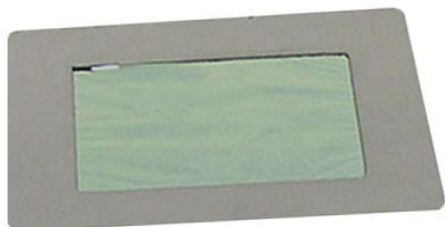


X-RAY Windows



ProLINE Series 10 Windows

Ultra-thin Polymer X-ray Windows

ProLINE Series 10 windows are ideal for applications that require high transmission of low energy x-rays. ProLINE Series 10 windows have higher performance over stretched polypropylene and other commonly used WDXRF windows.

Applications

WDXRF Systems

- Flow Proportional Counters
- Microanalysis
 - Column separation windows
- Detector Arrays
- Electron windows

Features

Ultra-thin polymer window
Large open area
Charge dissipation
Uniform thickness
High material purity

Benefits

High transmission of low energies
Large detection area
Low detector noise
Uniform transmission
Low spectral contamination

Window Composition

ProLINE Series 10 windows are composed of an ultra-thin layer of MOXTEK polymer and a charge dissipative layer of aluminum attached to a thin metal frame. Window frames may be provided by a customer or by MOXTEK.

X-Ray Transmission

ProLINE Series 10 windows are ideal for applications that require high transmission of low energy x-rays. Analysis of $B(K_{\alpha})$ is possible with this window. See transmission graph on the back of this data sheet.

Vacuum Tightness

Windows typically have a leak rate of less than 1×10^{-3} mbar L/sec He.

Mechanical Strength

ProLINE Series 10 windows are more than 4 times stronger than polypropylene windows. ProLINE Series 10 windows have withstood hundreds of cycles at a differential pressure of 1.2 atm without degradation in window performance.

Charge Dissipation

Most ProLINE Series 10 windows are coated with 200 angstroms of aluminum for charge dissipation. A custom thickness can be requested.



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MOXTEK® www.moxtek.com

Window Sizes and Active Area

Window active area geometry can be circular or rectangular. Maximum rectangular active area dimensions are 2.8" x 2.8" (70 x 70 mm). Maximum active area diameter is 4.0" (10.16 mm).

Warranty

ProLINE Series 10 windows are warranted to be free of manufacturing defects.

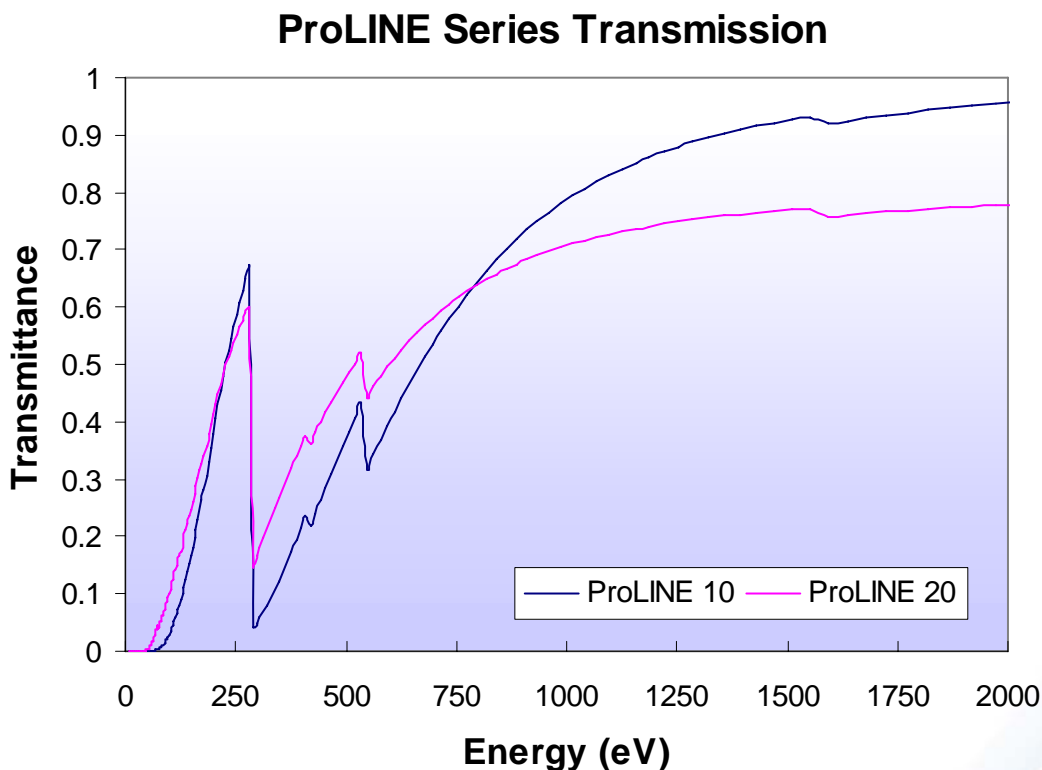
Ordering Information

Please contact MOXTEK for price and delivery information. ProLINE Series 10 windows can be purchased from spectrometer suppliers or directly through MOXTEK. Non-standard sizes can be customized.

Mounting

Care should be taken to not flex the mount too much or damage to the window may occur.

ProLINE Series 10 windows may be bonded to metal mounts. Mounts may be supplied or machined by MOXTEK. The preferred mount material is stainless steel 316 or other hard alloy. Aluminum can be used as an alternative. A drawing should be supplied that illustrates the orientation of the window frame with respect to the metal mount.



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