

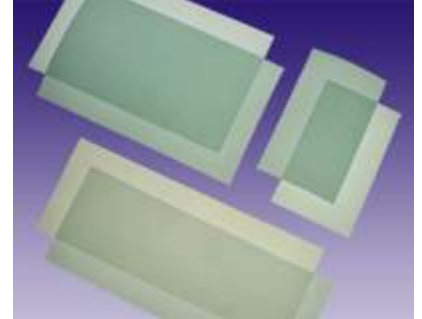
Linear Polarizers

Uses:

Linear polarizers are used in a wide variety of applications. A linear polarizer is an excellent solution in applications that require glare reduction due to reflected light. Camera filters, sunglasses, and machine vision systems greatly benefit from the use of a linear polarizer.

A linear polarizer can also be used to modulate the intensity of a light source. By placing two polarizers over top of each other and rotating one against the other, one can control the brightness. Aircraft cabin windows and telescope filters are ideal applications.

Photoelastic stress analysis benefits from the use of a polarizer. A polariscope can employ either a linear or circular polarizer. Transparent plastics become birefringent (double refracting) when stressed somewhat



Data:

Product Code	AP42-008T-PSA
Description	Neutral Grey Linear Polarizer with optical PSA on one side
Thickness	.0084" +/- .0012" (30um)
Substrate	Cellulose Triacetate
Front Finish	Smooth, Uncoated
Back Finish	Optical Pressure Sensitive Adhesive (PSA)
Transmission-single pass	42%
Transmission-double pass, parallel	35%
Transmission-crossed	.227%
Efficiency	99.53%
Environmental	-50°C to 70°C

Other Options:

Other front coatings: None

Other substrates: PSA optimized for bonding to glass

