

**"E" Series**  
**long wavelength**  
**pass filters**

**FILTRON**

**E400**

**E400 is a water white color. It is an edge filter designed to pass light beyond 400 nm while attenuating light below.**

Gentex, a world leader in the development and manufacturing of protective eyewear and attenuative filters, introduces a breakthrough in light management. Since the 1970s, Gentex has worked to develop methods of managing light to protect military personnel against the threat of coherent light hazards. Laser protective eyewear, night vision devices, and ultraviolet and infrared-sensitive equipment all utilize the light absorptive dye technology that resulted from the many years of Gentex research.

Gentex now offers this important advancement in light management technology for commercial and industrial applications under the Filtron® tradename. Filtron absorptive dyes are homogeneously dispersed into both polycarbonate and acrylic to create the "E" Series of long wavelength pass filters. "E" Series materials can be conveniently molded, extruded or fabricated into a filter with virtually any desired shape or configuration. Filtron E400 is available in 6.5" x 6.5" polycarbonate plates with 0.118" thickness, acrylic sheets up to 48" x 36" and custom moldable resins. Acrylic sheets are also available at custom thicknesses.

**Polycarbonate Physical Data**

Refractive Index ( $n_D$ )	1.586
Density (gm/cm <sup>3</sup> )	1.20
T <sub>g</sub> (°C)	150

**Acrylic Physical Data**

Refractive Index ( $n_D$ )	1.49
Density (gm/cm <sup>3</sup> )	1.18
T <sub>g</sub> (°C)	100

**Optical and Chromaticity Data\***

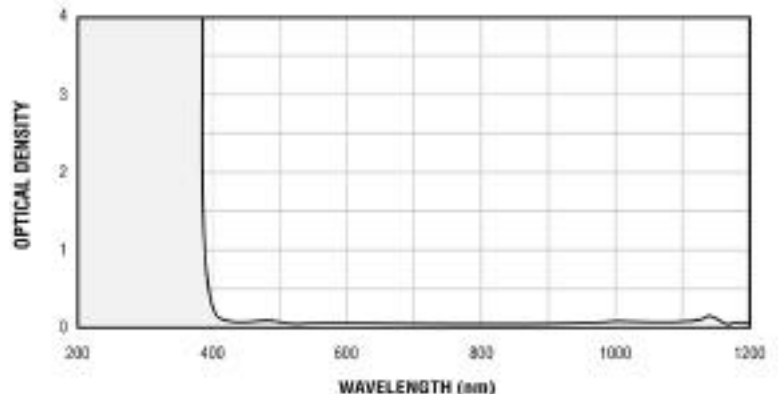
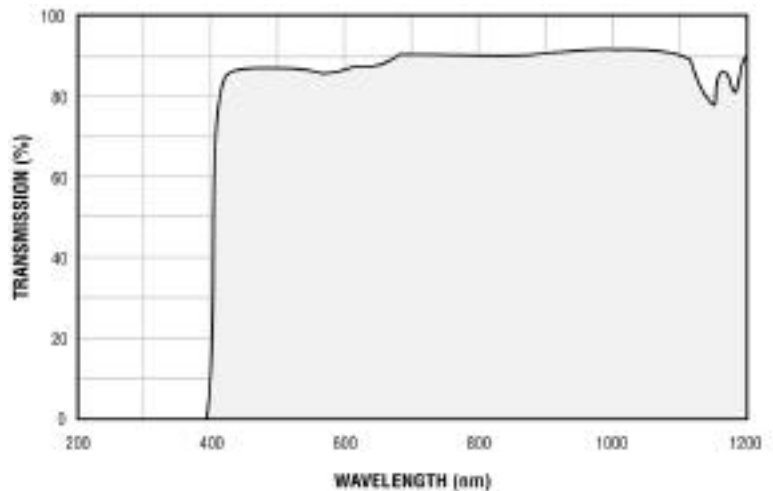
x = .3112	u' = .2017
y = .3178	v' = .4619

Photopic luminous transmission  
 (%PTLT) = 87%

5%T	≥ 394 nm
50%T	= 398 nm ± 6 nm
80%T	≤ 415 nm

\* CIE Illuminant C, typical values

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**FILTRON**  
 BY GENTEX