

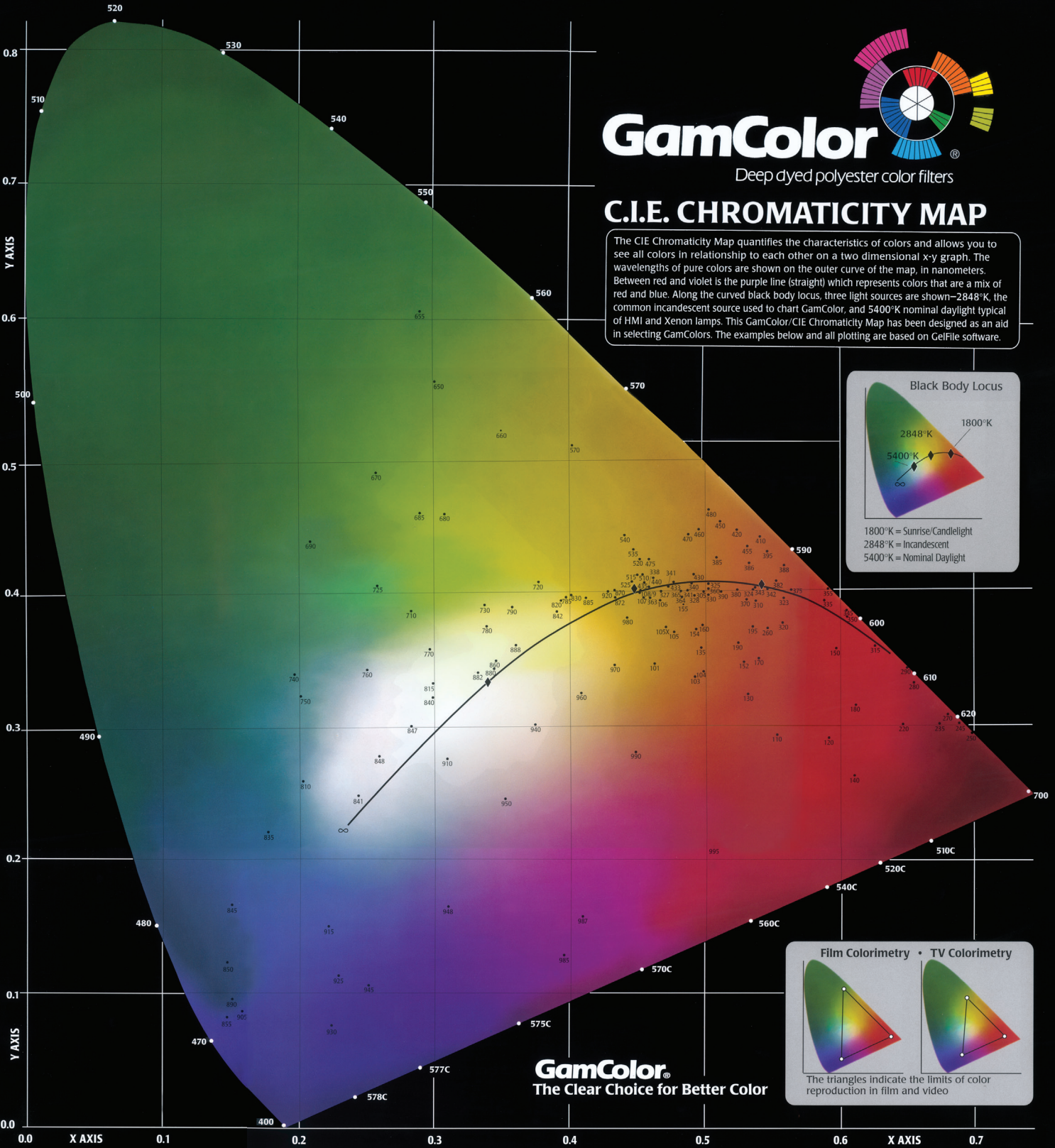
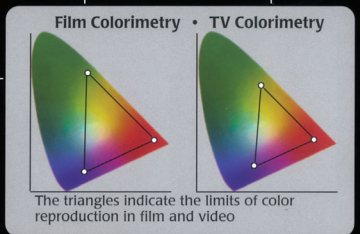
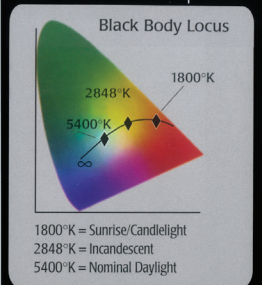
GamColor

Deep dyed polyester color filters



C.I.E. CHROMATICITY MAP

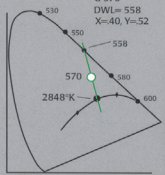
The CIE Chromaticity Map quantifies the characteristics of colors and allows you to see all colors in relationship to each other on a two dimensional x-y graph. The wavelengths of pure colors are shown on the outer curve of the map, in nanometers. Between red and violet is the purple line (straight) which represents colors that are a mix of red and blue. Along the curved black body locus, three light sources are shown—2848°K, the common incandescent source used to chart GamColor, and 5400°K nominal daylight typical of HMI and Xenon lamps. This GamColor/CIE Chromaticity Map has been designed as an aid in selecting GamColors. The examples below and all plotting are based on GelFile software.



GamColor
The Clear Choice for Better Color

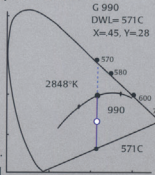
Determining the Dominant Wavelength - DWL

To determine the dominant wavelength of a GamColor, draw a straight line from the coordinates of the light source through the coordinates of the color filter to the edge of the CIE Chromaticity Map.



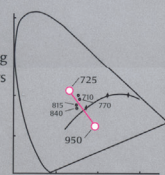
Lavender and purple colors are a mixture of red and blue, they do not exist as individual spectrum colors.

To determine the DWL of a color that falls in the lavender region, draw a line from the coordinates of the light source through the color filter coordinates to the purple line. Continue the line in the opposite direction to the spectrum curve. The colors' DWL will be specified as a complementary wavelength. (571C)



Using the GamColor/CIE Chromaticity Map

The coordinate for each GamColor is noted on the Chromaticity Map. By drawing a line between any two colors you can see what colors can be mixed using any two GamColor filters in two separate instruments and blending them.



Three Color Mixing

Select three GamColors and draw a triangle using their coordinates. Example: (570, 650, 950) The triangle will indicate all the colors you can achieve by blending these three colors in separate instruments, an excellent tool to help you select cyclorama colors.

