

Transmittance of Polarized 3D Glasses

INTRODUCTION

In one type of the 3D glasses used to watch TV or movies, polarization is applied. The images for left and right eyes displayed in the screen are separated by polarization filters so as to provide the 3D image. This time, regular polarized 3D glasses (inverted V-shaped with the directions of the polarization axes crossing at 90°) were analyzed. The polarization sample measurement accessory contains 2 sample holders. Each sample holder can be rotated and thus, the transmittances of two polarization samples positioned in parallel as well as perpendicularly can be measured. The transmission spectra for one piece (single), when the polarization axes of the polarization filters for right and left eyes were crossed at 90°(cross), and when the axes were in parallel were measured. The transmittance of the cross-position was found to be almost 0% and thus, clear 3D images can be provided.

SAMPLE

Sample : Polarized 3D glasses

INSTRUMENT CONDITIONS

Instrument : U-4100 Spectrophotometer (solid sample measurement system)

[UV/VIS]

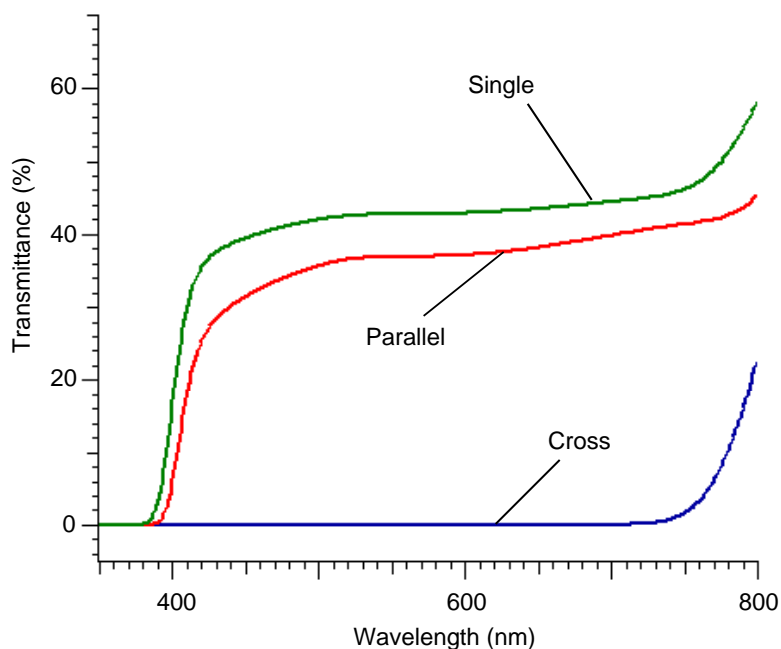
Scan speed : 300 nm/min

Slit : 8 nm

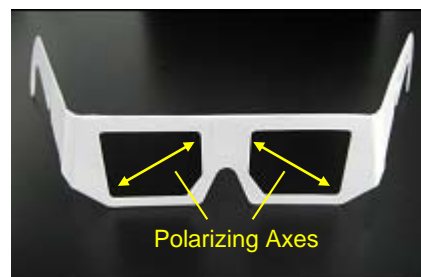
Sampling interval : 1 nm

OTHER NECESSARIES

Polarization sample measurement accessory (P/N : 1J0-0207)



Transmission Spectrum of Polarized 3D Glasses



Appearance of Polarized 3D Glasses

KEY WORDS

Material·Processing Material Related,
Composite Material·Membrane Crystal, 3D Glasses, Transmission Spectrum,
Transmittance, Polarization, Polarized 3D Glasses, U-4100

Spectrophotometer (UV)

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