

Plastic Polarizer | USP

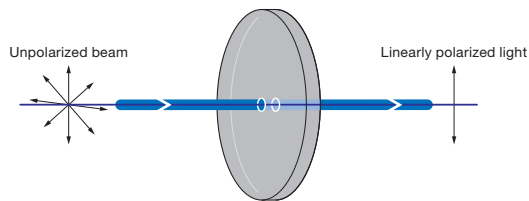
RoHS

Look for a low cost polarization solution, USP is for you.
Usage in Photo-elasticity experiments and simple polarization experiment or light intensity adjustment in illumination application.

- Possible to use 2 plastic polarizer for various experiments.
- Place 2 polarizers onto the light axis by changing the polarization of each polarizer, it allows you to experience the light intensity adjustment across a wide dynamic range.
- The plastic polarizer is thin and convenient for confined experiments space.
- Since product is made of plastic there is no risk of damage when dropped.

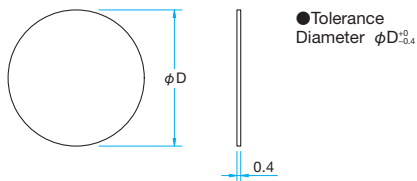


Schematic



Outline Drawing

(in mm)



Specifications

| | |
|------------------------|---|
| Material and structure | Polarizing high-polymer film laminated between plastic sheets |
| Wavelength Range | 400 – 700nm |

Guide

- ▶ For product sizes that is not listed on-line or in our catalog, please contact our Sales Division.
- ▶ Because the product is made of plastic, it is easy to cut and provide the product in any form.
- ▶ For high extinction ratio products, we suggest our polarizer filet (SPF) or the Glan Thompson prism (GTPC).
- ▶ We suggest using our filter holder (FHS) for mounting your polarizer.

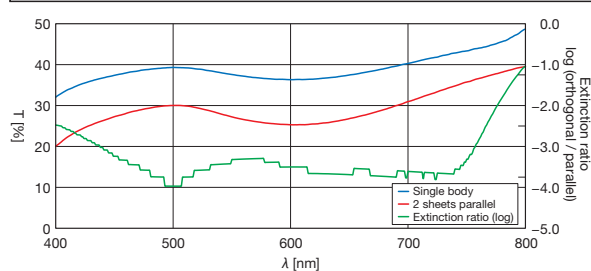
Attention

- ▶ The polarizer light axis direction is not indicated, please see our application note to find out how to identify the correct direction.
- ▶ Do not use this plastic filter with high power laser applications.
- ▶ Do not use solvents other than alcohol to wipe the polarizer.
- ▶ Do not use paper to wipe the polarizer, you may scratch the surface and may not be efficient for your experiment due to scattering and diffraction problem. Please use polarizer filter (SPF) if this is a concern.
- ▶ The extinction ratio may be changed according to the wavelength.

400 – 700nm

| Part Number | Diameter ϕD [mm] |
|-----------------|------------------------|
| USP-25.4C0.4-38 | $\phi 25.4$ |
| USP-30C0.4-38 | $\phi 30$ |
| USP-50C0.4-38 | $\phi 50$ |

Typical Transmittance Data



Compatible Optic Mounts

FHS-25 / FHS-50

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

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Actuators & Adjusters

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Waveplates

Polarizers