

# CD-5000

## Ultra-Thin Color Compensating Filter

### PRODUCT DESCRIPTION

HOYA's CD-5000 is being developed as a next generation Ultra-Thin Color Compensating Filter for various imaging applications. At standard thickness of 0.45mm the optical properties of CD-5000 are equivalent to its predecessor C-5000 at 1.2mm thickness.

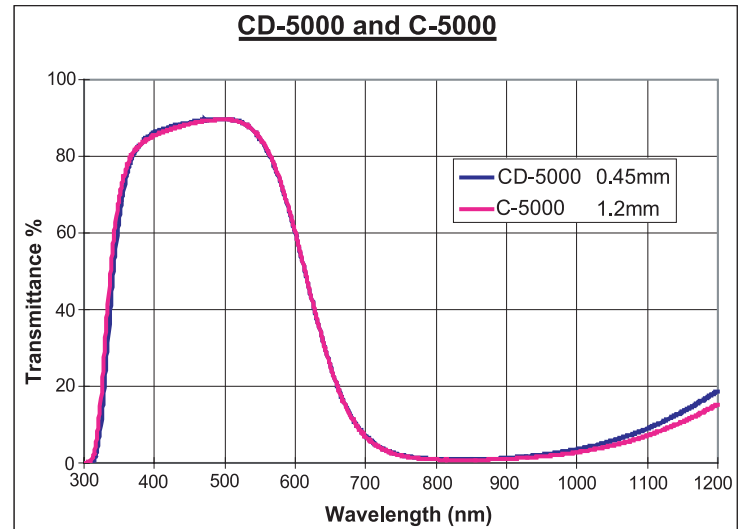
This filter is ideally suited for CCD applications such as Video Camera and Digital Camera. CD-5000 enhances the color distribution in the visible spectrum while eliminating any UV and near IR transmission.

### FEATURES

- ▶ Ultra-Thin
- ▶ High Transmission in the Visible Range
- ▶ Excellent Chemical Durability
- ▶ Matching Transmission to its Predecessor C-5000

### APPLICATIONS

- ▶ Video Camera
- ▶ Digital Camera



### PRODUCT SPECIFICATIONS

Thermal Properties	Value	Unit	Remarks
▶ Transformation Temperature (T <sub>g</sub> )	329	°C	
▶ Sag Temperature (T <sub>s</sub> )	365	°C	
▶ Coefficient of Thermal Expansion	170	x 10 <sup>-7</sup> /°C	100-300°C
Mechanical Properties	Value	Unit	Remarks
▶ Abrasion Factor	440		
▶ Knoop Hardness	440	Kgf/mm <sup>2</sup>	
Physical Properties	Value	Unit	Remarks
▶ Specific Gravity	3.27		
▶ Refractive Index (n <sub>d</sub> )	1.518		
▶ Abbe-Number (ν <sub>d</sub> )	74.6		
Transmission at 0.45mm Thickness	Value	Unit	Specification
▶ 400nm	86.2	%	≥ 85%
▶ 600nm	59.9	%	50% @ 613 +/-10nm
▶ 1200nm	18.8	%	≤ 20%

Specifications subject to change without notice.

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