

# VERIL

## Product Information

VERIL – a linear variable bandpass filter where the center wavelength of the filter shifts linearly across the length of the filter. When used with a slit, the bandwidth of the filter can be verified.

## Applications

VERIL filters provide a versatile solution:

- Analytical Instrumentation
- Spectroscopy
- Fluorescence excitation in genetic analysis
- Forensic science
- Immunology
- Pharmaceutical analysis
- And many more...

## Advantages

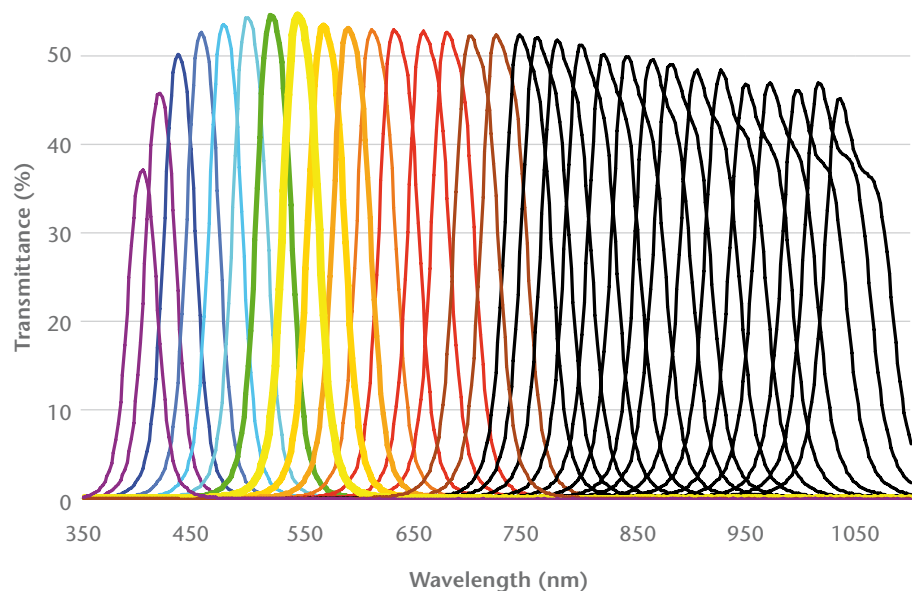
- Eliminates the need for multiple filters
- High signal to noise ratio

## Quality Assurance

Quality control is based on statistical process control as well as on rigorous final inspection. Measurement instruments include a broad range of spectrophotometers. Individual calibration curve and calibration table are provided with each VERIL filter.

## Application Support

Please contact us with your filter specifications. Our experienced application team is trained to find the right solution for your application.



## Specifications

|                           | VERIL S 60   | VERIL S 200<br>(upon request) | VERIL BL 200    |
|---------------------------|--|-------------------------------|-----------------|
| Spectral Range            | 400 – 700 nm   | 400 – 700 nm                  | 400 – 1000 nm   |
| Useable Length            | 38 – 50 mm   | 112 – 135 mm                  | 132 – 165 mm    |
| Filter Dispersion (nm/mm) | 6.0 – 7.9 2.2 – 2.7  | 3.6 – 4.5                     |                 |
| Peak In-Band Transmission | ≥ 35 % (450 nm)  | ≥ 35 % (450 nm)               | ≥ 40 % (500 nm) |
|                           | ≥ 45 % (550 nm)  | ≥ 45 % (550 nm)               | ≥ 40 % (700 nm) |
|                           | ≥ 40 % (650 nm)  | ≥ 40 % (650 nm)               | ≥ 30 % (900 nm) |
| Blocking Range            | 2x center wavelength   | 2x center wavelength          | unlimited       |
| Out-of-Band Blocking      | ≤ 0.01%  |                               |                 |
| Length (mm)               | 60 + 0/0.3   | 200 + 0/0.3                   | 200 + 0/0.3     |
| Width (mm)                | 25 + 0/0.3   |                               |                 |
| Thickness                 | ≤ 5 nm   | ≤ 6 nm                        | ≤ 6 nm          |
| Humidity Resistance       | MIL-Std-810C   |                               |                 |
| Notes                     | On request:<br>– Unlimited blocking range by additional blocking filter<br>– Fit filter with mirror side facing light source |                               |                 |



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