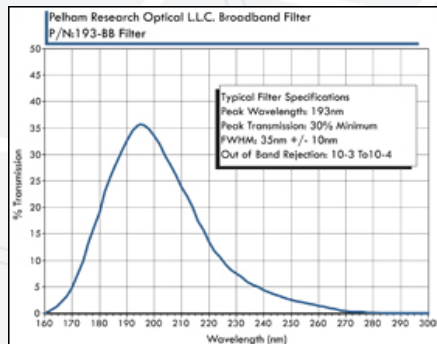




PELHAM RESEARCH OPTICAL L.L.C.

Specializing in Precision
VUV/UV Optical Coating and Service

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Substrate Sizes:

0.5" Dia. x 2mm
1.0" Dia. x 2.5mm
2.0" Dia. x 4mm

Substrate Specifications:

Diameter Tolerance: +0.00/0.005"
Thickness Tolerance: +/-0.25mm
Surface Figure: <2 Waves @ 632.8nm
Parallelism: <3 arc min
Scratch/Dig: 20-10
Bevel: 0.3-0.5mm x 45 Degrees
Clear Aperture: Central 85%

VUV/UV Broadband Filters

130-320nm

Pelham Research Optical (PRO) standard line of VUV-UV BROADBAND (BB) optical filters have a typical bandwidth of ~ 35nm to 50 nm (FWHM) depending on the wavelength and a minimum transmission of 30%. Visible rejection for PRO filter is typically 10⁻³ to 10⁻⁴. Coatings can be applied to Customer Supplied Material as well as supplied build-to print complete from your supplied drawings.

Broadband (BB) filters from 130nm to 170 nm are manufactured on high purity VUV grade MgF₂, CaF₂, and cultured quartz substrates. Filters from 180nm to 320nm are manufactured on UV grade fused silica and can be covered and edge sealed for added protection. Please see our covered and edge sealed datasheet for more information.

VUV-UV Broadband (BB) filter applications: Astronomy, Analytical and Biotechnology Instrumentation, Element Analysis, Environmental Monitoring and Filter based Spectroscopy.

Contact our [Sales Department](#) to order product, or [Request a Quote](#).

All prices are subject to change at any time.

Click on highlighted wavelength to see curve. Opens in new window.

Peak Wavelength (nm)	FWHM (nm)	Min. Peak %T	0.5" Dia.	1.0" Dia.	2.0" Dia.
130 +/- 5	40 +/- 10	30	130-BB-5D	130-BB-1D	130-BB-2D
140 +/- 5	60 +/- 10	30	140-BB-5D	140-BB-1D	140-BB-2D
150 +/- 5	60 +/- 10	30	150-BB-5D	150-BB-1D	150-BB-2D
160 +/- 5	45 +/- 10	30	160-BB-5D	160-BB-1D	160-BB-2D
170 +/- 5	45 +/- 10	30	170-BB-5D	170-BB-1D	170-BB-2D
180 +/- 5 S. Ph	40 +/- 10	30	180-BB-5D	180-BB-1D	180-BB-2D
190 +/- 5 As	35 +/- 10	30	190-BB-5D	190-BB-1D	190-BB-2D
200 +/- 5 Se	35 +/- 10	30	200-BB-5D	200-BB-1D	200-BB-2D
210 +/- 5	35 +/- 10	30	210-BB-5D	210-BB-1D	210-BB-2D
214 +/- 5 Zn	35 +/- 10	30	214-BB-5D	214-BB-1D	214-BB-2D
220 +/- 5 Pb	35 +/- 10	30	220-BB-5D	220-BB-1D	220-BB-2D
230 +/- 5 Cd, Ni	35 +/- 10	30	230-BB-5D	230-BB-1D	230-BB-2D
240 +/- 5 Co, Tin	35 +/- 10	30	240-BB-5D	240-BB-1D	240-BB-2D
250 +/- 5	40 +/- 10	30	250-BB-5D	250-BB-1D	250-BB-2D
253.7 +/- 5 Hg	40 +/- 10	30	254-BB-5D	254-BB-1D	254-BB-2D
260 +/- 5 Fe	40 +/- 10	30	260-BB-5D	260-BB-1D	260-BB-2D
266 +/- 5	40 +/- 10	30	266-BB-5D	266-BB-1D	266-BB-2D
270 +/- 5 Cr	45 +/- 10	30	270-BB-5D	270-BB-1D	270-BB-2D
280 +/- 5	45 +/- 10	30	280-BB-5D	280-BB-1D	280-BB-2D
290 +/- 5	50 +/- 10	30	290-BB-5D	290-BB-1D	290-BB-2D
310 +/- 5	50 +/- 10	30	310-BB-5D	310-BB-1D	310-BB-2D
320 +/- 5	50 +/- 10	30	320-BB-5D	320-BB-1D	320-BB-2D
Peak Wavelength (nm)	FWHM (nm)	Min. Peak %T	0.5" Dia.	1.0" Dia.	2.0" Dia.

All Pelham Research Optical filters are supplied with individual VUV-UV % transmission calibration curve detailing their VUV-UV spectral performance.

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