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TECHSPEC®

25.4 x 25.4mm x -50mm FL, VIS 0° Imaging Grade PCV Cylinder Lens



TECHSPEC® Beam Shaping PCV Cylinder Lenses

Stock #34-994 **2 In Stock**

1 £108.⁰⁰

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | £108.00 each |
| Qty 6-25 | £99.00 each |
| Qty 26-49 | £95.00 each |
| Need More? | Request Quote |

Prices shown are exclusive of VAT/local taxes

| Product Downloads | |
|------------------------------|-----------------|
| STEP:step | PDF Drawing:pdf |
| IGES:igs | Zemax:zar |
| Zemax:zmx | eDrawing:eprt |
| Code V:seq | EO Spec Sheet |
| Download All | |

General

Type: Cylinder Lens, Plano-Concave

Physical & Mechanical Properties

| | |
|--|--|
| Bevel: Protective as needed | Center Thickness CT (mm): 4.00 |
| Center Thickness Tolerance (mm): ±0.1 | Clear Aperture CA (mm): 22.86 x 22.86 |
| Dimensional Tolerance (mm): +0.0/-0.025 | Dimensions (mm): 25.4 x 25.4 |
| Edge Thickness ET (mm): 7.22 | Axial Twist (arcmin): <3 |

Optical Properties

| | |
|--|--|
| Effective Focal Length EFL (mm): -50.00 | Substrate: N-BK7 |
| f/#: 2 | Numerical Aperture NA: 0.25 |
| Coating: VIS 0° (425-675nm) | Wavelength Range (nm): 425 - 675 |
| Back Focal Length BFL (mm): -52.64 | Coating Specification: R _{avg} ≤0.4% @ 425 - 675nm |

| | | | |
|-----------------------------------|-------|--------------------------------------|-------|
| Radius R₁ (mm): | 25.84 | Surface Quality: | 40-20 |
| Power (P-V) @ 632.8nm: | 1.5λ | Irregularity (P-V) @ 632.8nm: | λ/4 |
| Plano Axis Wedge (arcmin): | <5 | Power Axis Wedge (arcmin): | <5 |

Regulatory Compliance

| | | | |
|-------------------|------------------|------------------------------------|-------------|
| RoHS 2015: | Compliant | Certificate of Conformance: | View |
| Reach 235: | Compliant | | |

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

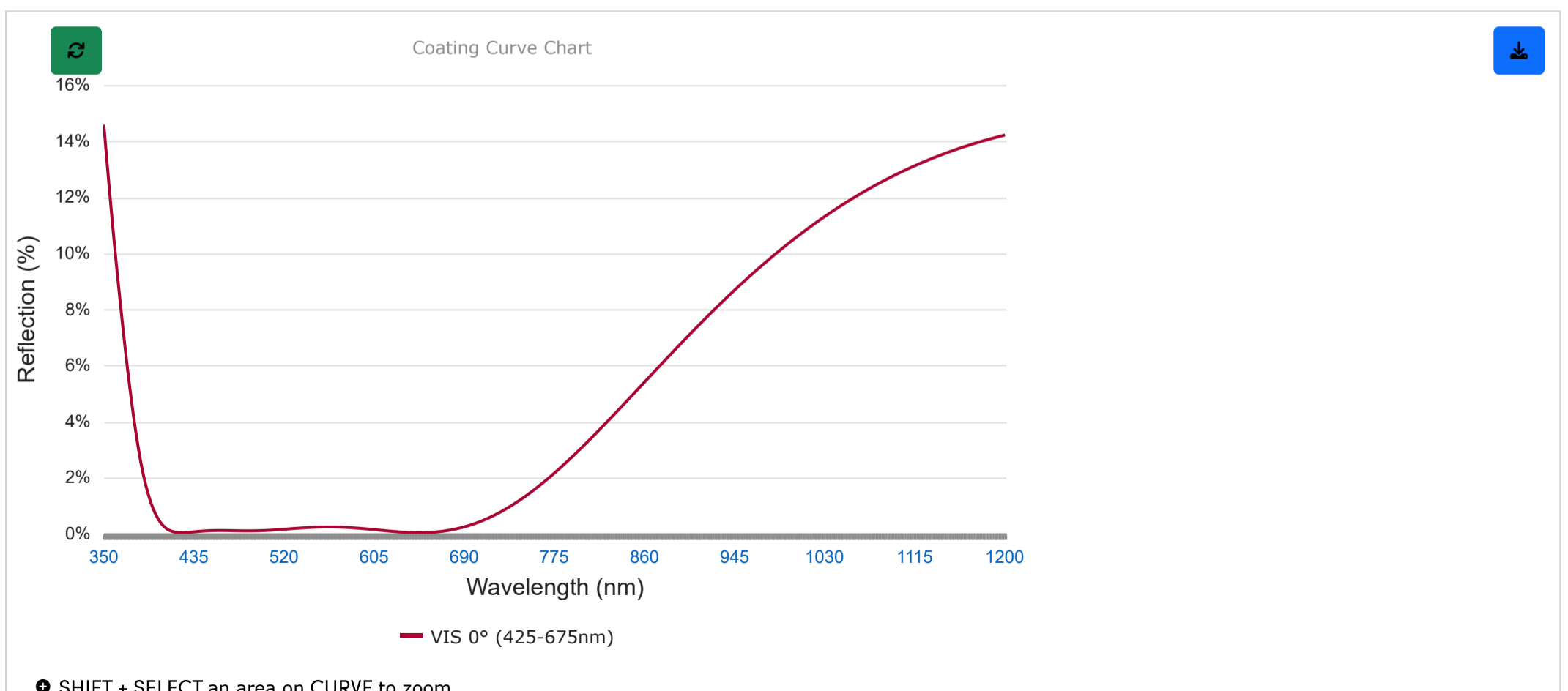
Product Details

- Beam Shaping Grade Specifications
- Used with [TECHSPEC® Imaging Grade PCX Cylinder Lenses](#) for Circularizing Beams
- Negative Focal Length

TECHSPEC® Imaging Grade PCV Cylinder Lenses are typically used to diverge collimated light in a single axis. These lenses are designed for system integration due to the tightly controlled specifications and generous volume discounts. TECHSPEC Imaging Grade PCV Cylinder Lenses feature tightly controlled wedge and tilt specifications and are ideal for circularizing elliptical beams in combination with our [TECHSPEC Imaging Grade PCX Cylinder Lenses](#).

Coating Curves

VIS 0° (425-675nm)



Please note that coating performance outside each product's specified design range is theoretical and may vary.

Frequently Purchased Together



#47-316 - 25.4mm Dia.
High Performance Glass
Linear Polarizer
£150.40

#90-935 - 532nm, $\lambda/2$
Polymer Waveplate
£265.60

#90-937 - 633nm, $\lambda/2$
Polymer Waveplate
£265.60

#90-939 - 532nm, $\lambda/4$
Polymer Waveplate
£265.60

Resources

Media Type

- Application Note
- Trending in Optics
- Published Article
- FAQ
- Glossary
- Video

APPLICATION NOTE

Anti-Reflection
(AR) Coatings

APPLICATION NOTE

Laser Beam
Shaping
Overview

TRENDING IN OPTICS

Non-Circular
Optics for
System
Miniaturization

APPLICATION NOTE

What are
Cylinder
Lenses?

APPLICATION NOTE

Considerations
When Using
Cylinder
Lenses

PUBLISHED ARTICLE

Cylinder
Lenses for
Beam Shaping

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