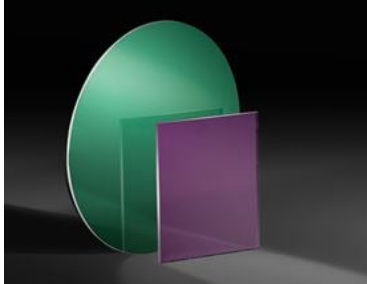


[All Products](#) / [Optics](#) / [Polarization Optics](#) / [Linear Polarizers](#) / [Wire Grid \(Reflective\) Polarizers](#)

## Protective Overcoat Wire Grid Polarizers



- Reflect S-Polarized Light, Transmit P-Polarized Light
- Protective Overcoat for Easy Handling and Cleaning
- Lighter, Thinner Design than Traditional [Wire Grid Polarizers](#)
- Overcoat Temperature Stability up to 200°C

Common Specifications

|                                    |  |   |   |
|------------------------------------|--|---|---|
| General                            |  |   |   |
| Note:                              |  | When the Reference Mark is orientated to the 3 or 9 o'clock position, the transmission axis runs left to right. |   |
| Physical & Mechanical Properties   |  |   |   |
| Thickness (mm):                    |  | 0.70 ±0.07  |   |
| Dimensional Tolerance (mm):        |  | ±0.2  | Construction: Wire Grid   |
| Alignment Tolerance (°):           |  | ±1.0  |   |
| Optical Properties                 |  |   |   |
| Angle of Incidence (°):            |  | 0 ±20   |   |
| Coating:                           |  | BBAR (400-700nm)  | Extinction Ratio:<br>348:1 @ 450nm<br>885:1 @ 550nm<br>1229:1 @ 650nm |
| Substrate:                         |  | <a href="#">Corning Eagle XG</a>  | Surface Quality: 80-50  |
| Transmission (%):                  |  | 87  | Transmission Tolerance (%): ±2.5 @ 420 - 700nm                        |
| Coating Specification:             |  | R <sub>avg</sub> <1% @ 400 - 700nm (Back of Substrate)  | Wavelength Range (nm): 420 - 700                                      |
| Material Properties                |  |   |   |
| Thermal Expansion:                 |  | 31.7 x 10 <sup>-7</sup> /°C   |   |
| Environmental & Durability Factors |  |   |   |
| Operating Temperature (°C):        |  | -40 to +200   |   |

**Technical Information**

## Products

| Coating Specification                                  | Alignment Tolerance (°) | Operating Temperature (°C) | Substrate                        | Thickness (mm) | Dimensions (mm) | Stock Number            | Price   | Buy         |
|--|-------------------------|----------------------------|----------------------------------|----------------|-----------------|-------------------------|---|-------------|
| R <sub>avg</sub> <1% @ 400 - 700nm (Back of Substrate) | ±1.0                    | -40 to +200                | <a href="#">Corning Eagle XG</a> | 0.70           | -               | <a href="#">#12-648</a> | C\$509.01<br><a href="#">Volume Pricing</a>   | 8 In Stock  |
| R <sub>avg</sub> <1% @ 400 - 700nm (Back of Substrate) | ±1.0                    | -40 to +200                | <a href="#">Corning Eagle XG</a> | 0.70           | 12.5 x 12.5     | <a href="#">#12-645</a> | C\$323.51<br><a href="#">Volume Pricing</a>   | 9 In Stock  |
| R <sub>avg</sub> <1% @ 400 - 700nm (Back of Substrate) | ±1.0                    | -40 to +200                | <a href="#">Corning Eagle XG</a> | 0.70           | -               | <a href="#">#12-649</a> | C\$808.78<br><a href="#">Volume Pricing</a>   | 4 In Stock  |
| R <sub>avg</sub> <1% @ 400 - 700nm (Back of Substrate) | ±1.0                    | -40 to +200                | <a href="#">Corning Eagle XG</a> | 0.70           | 25.0 x 25.0     | <a href="#">#12-646</a> | C\$455.59<br><a href="#">Volume Pricing</a>   | 14 In Stock |
| R <sub>avg</sub> <1% @ 400 - 700nm (Back of Substrate) | ±1.0                    | -40 to +200                | <a href="#">Corning Eagle XG</a> | 0.70           | -               | <a href="#">#12-650</a> | C\$1,788.22<br><a href="#">Volume Pricing</a> | 2 In Stock  |
| R <sub>avg</sub> <1% @ 400 - 700nm (Back of Substrate) | ±1.0                    | -40 to +200                | <a href="#">Corning Eagle XG</a> | 0.70           | 50.0 x 50.0     | <a href="#">#12-647</a> | C\$1,396.44<br><a href="#">Volume Pricing</a> | Contact Us  |



Copyright 2023, Edmund Optics Inc., 101 East Gloucester Pike, Barrington, NJ 08007-1380 USA  
 Phone: 1-800-363-1992 :  
[www.edmundoptics.com](http://www.edmundoptics.com)