AccuCoat offers custom and standard coatings for high-index polymer optics as they are an increasingly popular choice and, may be diamond-turned or molded to capture challenging shapes precisely. AccuCoat has advanced experience in coating single-point diamond turned (SPDT) and injected molded optics.

Our optical coatings are designed to be index matched when required. Customer specifications are met through the use of thin-film design software programs paired with our extensive coating engineering expertise to create the desired performance and durability required for demanding optics applications.

OKP-4, OKP-V1, OKP-1 and OKP-A2

OKP polymer materials offer:

- High refractive index (1.607 - 1.661) for thinner lenses
- Low Abbe numbers (27-20) for correction of chromatic abberations
- Heat resistant for use in military or security applications

<table>
<thead>
<tr>
<th>Item</th>
<th>Measurement Method</th>
<th>OKP-4</th>
<th>OKP-V1</th>
<th>OKP-1</th>
<th>OKP-A2</th>
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</thead>
<tbody>
<tr>
<td>Refractive Index</td>
<td>589 nm, 20°C</td>
<td>1.607</td>
<td>1.637</td>
<td>1.642</td>
<td>1.661</td>
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<tr>
<td>Abbe Number</td>
<td>20°C</td>
<td>27.0</td>
<td>23</td>
<td>22.4</td>
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<td>Birefringence</td>
<td>OGC Method</td>
<td>&lt;5</td>
<td>34</td>
<td>&lt;5</td>
<td>9</td>
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</tbody>
</table>
THIN FILM TYPES:

**Antireflective:** BBAR, Single layer, V-coat, W-coat, Laser damage for plastics

**Beamsplitters:** 50/50, 60/40, 70/30, Non-polarizing, Polarizing

**Filters:** Long pass, Short pass, Neutral density

**Mirrors:** Dielectric, Metal/Prot/Enh/Bare, Aluminum, Chrome, Copper, Gold, Nickel, Silver

SUBSTRATE TYPES:

Bonded elements, Cylinders, Diamond-turned, Films, Lens arrays, Polygons, Prisms

ACCUCOAT TEST & MEASUREMENT:

- R&T Measurements on Spectrophotometers measuring from 185 nm to 50 μm
- Perkin Elmer Lamda 40, 900, 950, and 983 IR
- Mil-Spec (MIL-M-13508C, MIL-PRF-13830B, MIL-F-48616, MIL-C-14806A, MIL-C-48497A, MIL-C-675C)
- ISO Specifications: ISO 9022, ISO 9211
- Tenny Environmental Chambers
- Laser Damage Threshold and Damage Resistant Testing

APPLICATIONS: