

Our experienced polymer coating team is able to carry your needs from proof of concept to high volume production.

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 aberrations
- Heat resistant for use in military or security applications

We specialize in coating molded or diamond-turned polymers to perfection.

Item	Measurement Method	OKP-4	OKP-V1	OKP-1	OKP-A2
Refractive Index	589 nm, 20°C	1.607	1.637	1.642	1.661
Abbe Number	20°C	27.0	23	22.4	20.4
Birefringence	OGC Method	<5	34	<5	9



We offer a wide range of coating & measurement options, including AR/VR coatings, Mil-Spec & Laser Damage

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 μ m
- 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:

Consumer, Defense & Security, Displays, Imaging, Instrumentation, LiDAR, AR/VR Lighting, Machine Vision, Medical Devices, Night Vision, Projections, Security, Sensors

