




October 28, 2024

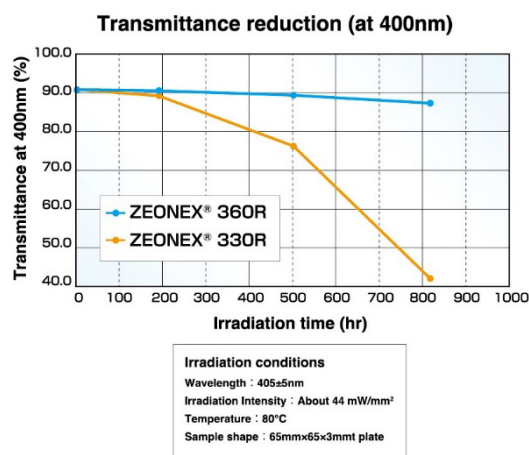
Zeon releases a new grade of Cyclo Olefin Polymer that will drive further advances in optical lens materials for AR and VR and contribute to realizing a digital society

Zeon Corporation

Zeon Corporation (Zeon; head office: Chiyoda-ku, Tokyo; President and CEO: Tetsuya Toyoshima) launched a new grade of Cyclo Olefin Polymer (COP, product names: ZEONEX® and ZEONOR®), its proprietary specialty plastic, in September 2024. Featuring significantly lower birefringence than that of other products and excellent resistance to light and heat yellowing, the new grade is expected to see growing demand, particularly as a material for optical lenses.

Zeon developed the new grade, ZEONEX® 360R, specifically for optical lenses requiring low birefringence. This grade is expected to be used primarily in AR and VR glasses, head-up displays, and projector lens components. ZEONEX® 360R stands out for its (1) low birefringence, (2) light resistance, and (3) heat yellowing resistance. Notably, we have succeeded in limiting birefringence to roughly one-third of that seen in conventional products.

Property	Condition	Unit	ZEONEX® 360R	ZEONEX® K26R
Birefringence	Square part at 57×57, of a 65×65×3t (mm) square plate, annealed.		 4.6nm	 14.1nm



Zeon has been meeting diverse needs by offering a broad lineup of products for optical lenses that leverage the superior properties of COP, such as high transparency and low water absorption. The addition of this new grade will make it possible to create optical lenses that offer even more beautiful and clear visuals while maintaining high durability, which will contribute to realizing a fulfilling digital society and improving the quality of life for people.

The new grade, ZEONEX® 360R, will be showcased at the High-performance Plastic Expo during the Highly-functional Material Week that will be held from October 29 to 31 at Makuhari Messe. At this event, we will exhibit COP products that are being widely used for optical, semiconductor, and medical applications in addition to ZEONEX® 360R.

Exhibition Outline



Dates: Tuesday, October 29 to Thursday, October 31
Venue: Makuhari Messe Hall 6 (Booth No. 30-60)

(Click on the banner to go to the official website.)

Zeon will exhibit its lineup of COP products in addition to the new grade product.

In keeping with its name, derived from the Greek words “geo” (Earth) and “eon” (eternity), Zeon will contribute to environmental sustainability along with safe and comfortable living by providing innovative technologies, products, and services.

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[Contact form](#)