COC

Zeonex® E480R

Zeon Corporation

Position #120 · Jinsutong Reference Catalog 2026

Resin Overview

COC · Optical, Low Water Absorption. Sourced from public manufacturer technical data sheets.

This Grade

Manufacturer	Zeon Corporation
Category	COC · Optical, Low Water Absorption
Typical Use	Camera lens, prism, optical storage

Key Properties

Density	1.01 g/cm³
MFR (260°C/2.16 kg)	12 g/10min
Tg (DSC)	138 °C
Tensile Strength at Yield	65 MPa
Tensile Modulus	2700 MPa
Elongation at Break	3.5%
Light Transmittance (2mm)	92%
Refractive Index	1.53

Key Features

- Very low water absorption for stability
- High clarity for optical use
- Good moldability for precision parts
- RoHS compliant

Processing Conditions

Melt Temperature	280-320 °C
Mold Temperature	120-150 °C
Drying	4 h @ 100 °C
Processing Methods	Injection molding

Typical Applications

- Camera lens elements
- Optical prisms
- Optical data storage
- Precision optical instruments

Regulatory & Compliance

- USP Class VI
- RoHS compliant

> ⚠ All data sourced from public manufacturer catalogs.

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