COC ZEONEX E48R

Zeon Corporation

Reference catalog 2026 - Upgraded Template

Resin Overview (Upgraded Template)

COC · 环烯烃共聚物 (Upgraded)

This Grade

Manufacturer	Zeon Corporation
Category	COC · 环烯烃共聚物 (Upgraded)
Typical Use	Reference grade for 环烯烃共聚物 (Upgraded)

Key Properties (8 metrics)

Density	1.02 g/cm3
MFR (260°C/2.16 kg)	15 g/10min
Tg (DSC)	138 °C
Tensile Strength at Yield	65 MPa
Tensile Modulus	2700 MPa
Elongation at Break	4%
Light Transmittance (2mm)	92%
Refractive Index	1.53

Key Features

- High clarity for optical use
- Low birefringence
- High Tg (78-138°C depending on grade)
- USP Class VI available

Processing Conditions

Melt Temperature	270-320 °C
Mold Temperature	100-150 °C

Drying	4 h @ 100 °C
Processing Methods	Injection molding

Typical Applications

- Optical lenses
- Pharmaceutical packaging
- Medical devices
- Diagnostic components

Regulatory & Compliance

- RoHS compliant
- REACH registered
- FDA food contact grades available

> Data from public manufacturer catalogs. Verify before procurement.

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