

ZEONEX® K26R Optical Grade

Cyclo-Olefin Polymer resin that has a very high melt flow rate (MFR = 52 g/min), optimal for micro lens applications. Suitable for mobile phone, AR/VR and security camera lenses due to the low birefringence and low haze.

| Property | Value | Unit | Test Standard |
|--|----------------------|----------|---------------|
| Physical Properties | | | |
| Specific gravity | 1.02 | - | ASTM D792 |
| Melt flow rate (MFR) (280 °C, 21.18 N) | 56 | g/10min | ISO 1133 |
| Water absorption (23 °C-sat) | <0.01 | % | ASTM D570 |
| Optical Properties | | | |
| Refractive index | 1.535 | nd | ASTM D542 |
| Light transmittance | 92 | % | ASTM D1003 |
| Mechanical Properties | | | |
| Tensile strength | 54 | MPa | ISO 527 |
| Tensile modulus | 2530 | MPa | ISO 527 |
| Flexural strength | 80 | MPa | ISO 178 |
| Flexural modulus | 2360 | MPa | ISO 178 |
| Izod impact strength (notch 3.2 mm) | 23 | J/m | ASTM D526 |
| Thermal Properties | | | |
| Glass transition temperature | 143 | °C | JIS K7121 |
| Coefficient of thermal expansion | 6 x 10 ⁻⁵ | cm/cm °C | ASTM E831 |

Typical properties. Not to be used for purposes of establishing specification(s).