

ZEONEX® K22R Optical Grade

Cyclo-Olefin Polymer resin with superior optical properties of high transmittance and low haze. Suitable for both injection molding and diamond turning. Frequently used for mobile phone and automotive camera lenses.

Property	Value	Unit	Test Standard
Physical Properties			
Specific gravity	1.01	-	ASTM D792
Melt flow rate (MFR) (280 °C, 21.18 N)	32	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	72	MPa	ISO 527
Tensile modulus	2570	MPa	ISO 527
Flexural strength	115	MPa	ISO 178
Flexural modulus	2410	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).