

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).