

ZEONEX® 360R

Optical Grade

Optical grade of Cyclo-Olefin Polymer that has excellent resistance to blu-ray (405 nm) and low birefringence.

Property	Value	Unit	Test Standard
Physical Properties			
Specific gravity	0.95	-	ASTM D792
Melt flow rate (MFR) (260 °C, 21.18 N)	18	g/10min	ISO 1133
Water absorption (23 °C-sat)	<0.01	%	ASTM D570
Optical Properties			
Refractive index	1.509	nd	ASTM D542
Light transmittance	92	%	ASTM D1003
Mechanical Properties			
Tensile strength	37	MPa	ISO 527
Tensile modulus	2960	MPa	ISO 527
Flexural strength	83	MPa	ISO 178
Flexural modulus	2880	MPa	ISO 178
Izod impact strength (notch 3.2 mm)	10	J/m	ASTM D526
Thermal Properties			
Glass transition temperature	121	°C	JIS K7121
Coefficient of thermal expansion	7 x 10⁻⁵	cm/cm °C	ASTM E831

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