

ZEONEX® T62R
Optical Grade

Cyclo-Olefin Polymer resin with high Tg (154 °C) for applications with high heat requirements. Exhibits stable optical performance and mechanical properties at 125 and 135 °C accelerated aging tests. Optimal injection molding grade for automotive ADAS lenses.

Property	Value	Unit	Test Standard
Physical Properties			
Specific gravity	1.03	-	ASTM D792
Melt flow rate (MFR) (280 °C, 21.18 N)	16	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	67	MPa	ISO 527
Tensile modulus	2650	MPa	ISO 527
Flexural strength	98	MPa	ISO 178
Flexural modulus	2540	MPa	ISO 178
Izod impact strength (notch 3.2 mm)	23	J/m	ASTM D526
Thermal Properties			
Glass transition temperature	154	°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).