

## ZEONOR® 1060R Diagnostic Grade

Cyclo-Olefin Polymer resin with a high flow rate for ease of molding. Compatible with EtO, Gamma irradiation and vaporized hydrogen peroxide sterilization.

Property	Value	Unit	Test Standard
<b>Physical Properties</b>			
Specific gravity	1.01	-	ASTM D792
Melt flow rate (MFR) (280 °C, 21.18 N)	60	g/10min	ISO 1133 JIS K719
Water absorption (23 °C/24 hrs)	<0.01	%	ASTM D570
Water vapor transmission (40 °C, 90% rh, @100µm thickness)	/	g/m <sup>2</sup> ·day	ASTM F1249
Oxygen transmission (23 °C, 0% rh, @100µm thickness)	/	cm <sup>3</sup> /(m <sup>2</sup> ·day·atm)	ASTM D3985
<b>Optical Properties</b>			
Light transmittance (3mm thickness)	>90	%	ASTM D1003
<b>Mechanical Properties</b>			
Tensile strength	7500	psi	ISO 527
Tensile modulus	320	kpsi	ISO 527
Flexural strength	12000	psi	ISO 178
Flexural modulus	300	kpsi	ISO 178
Elongation at break	13	%	ISO 527
Izod impact strength (23 °C, 3.2 mm with notch )	34	J/m	ASTM D256
<b>Thermal Properties</b>			
Glass transition temperature (20 °C/min)	97	°C	JIS K7121
Heat deflection temperature (0.45 MPa)	88	°C	ASTM E831
Coefficient of linear thermal expansion (1.82 MPa)	6E-05	cm/cm °C	ASTM D648
<b>Solvent Compatibility</b>			
Alcohols	Good		
Acids/Bases	Good		

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