

Refrac Index (n) vs Wavelength (λ)	
Wavelength (μm)	Refractive Index
2.058	4.1020
2.153	4.0919
2.313	4.0786
2.437	4.0708
2.577	4.0609
2.714	4.0562
2.998	4.0452
3.303	4.0369
4.258	4.0216
4.866	4.0170
6.238	4.0094
8.660	4.0043
9.720	4.0034
11.04	4.0026
12.00	4.0023
13.02	4.0021

Optical Properties	
Refractive Index	4.0034
Thermal co-efficient of Refractive Index	35 – 40 x 10 ⁻⁵
Transmission Range	1.8 – 12.0 μm
Thermal Properties	
Thermal Linear Expansion	6.1 x 10 ⁻⁶ /°C at 20°C
Thermal Conductivity	59.8 W m ⁻¹ K ⁻¹ at 273 K
Specific Heat Capacity	319 J Kg ⁻¹ K ⁻¹
Melting Point	938.2 °C
Mechanical Properties	
Density	5.33 g/cc
Knoop Hardness	780
Young Modulus	102.7 GPa
Shear Modulus	67 GPa
Poisson Ratio	0.278

