

Chemical Formula	Si
Refractive Index (5 μm)	3.42
Knoop Hardness (psi)	1150
Modulus of Rupture (psi)	9000
Useful Wavelength Range, Transmission (μm)	1.0-100
Useful Wavelength Range, ATR (μm)	1.06-6.7; 30-FIR
Maximum Useful Temperature (C°)	300
Melting Point (C°)	1420
General Properties	Hard; withstands thermal and mechanical shock; high thermal conductivity; metallic appearance.
Chemical Properties	Insoluble in most acids and bases; insoluble in HF; soluble in HF and HNO ₃ mixture; insoluble in water.
Clean with...	Alcohol, acetone, water.

This was compiled from various sources. For more details, consult the Chemical Abstracts Service at www.cas.org.

Transmission Spectrum

