

Chemical Formula	Ge
Refractive Index (10 μm)	4.00
Knoop Hardness (psi)	550
Modulus of Rupture (psi)	7000
Useful Wavelength Range, Transmission (μm)	2.0-17
Useful Wavelength Range, ATR (μm)	2.0-11.4
Maximum Useful Temperature (C°)	125
Melting Point (C°)	936
General Properties	Hard and brittle; temperature sensitive; subject to thermal shock; good thermal conductivity; becomes opaque at 125°C; metallic appearance.
Chemical Properties	Insoluble in water; soluble in hot H ₂ SO ₄ , nitric acid, aqua regia and molten alkalis; resists hot conc. HCl acid, hot conc. HF acid, and hot conc. NaOH solution; not attacked by cold sulfuric acid; slow oxidation in air; non-hygroscopic.
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

