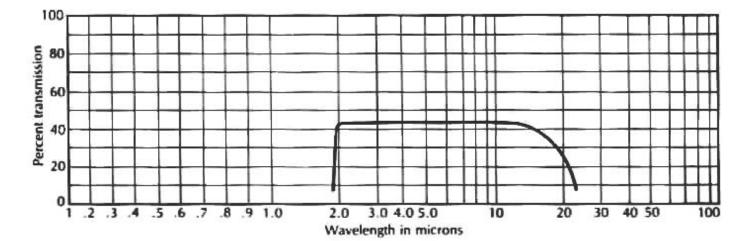
Chemical Formula	Ge
Refractive Index (10 µm)	4.00
Knoop Hardness (psi)	550
Modulus of Rupture (psi)	7000
Useful Wavelength Range, Transmission (μ m)	2.0-17
Useful Wavelength Range, ATR (μm)	2.0-11.4
Maximum Useful Temperature (Cº)	125
Melting Point (C ^o)	936
General Properties	Hard and brittle; temperature sensitive; subject to thermal shock; good thermal conductivity; becomes opaque at 125°C; metallic appearance.
Chemical Properties	Insoluble in water; soluble in hot H_2SO_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