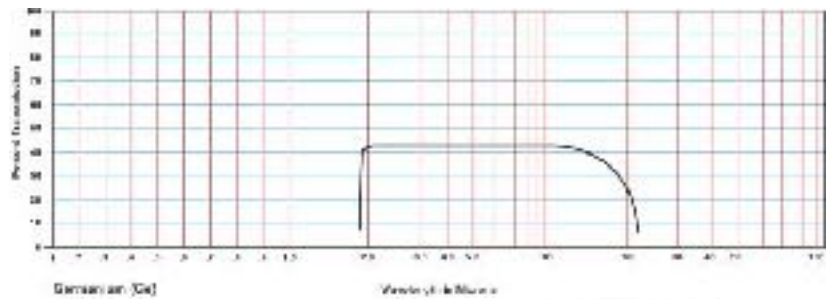
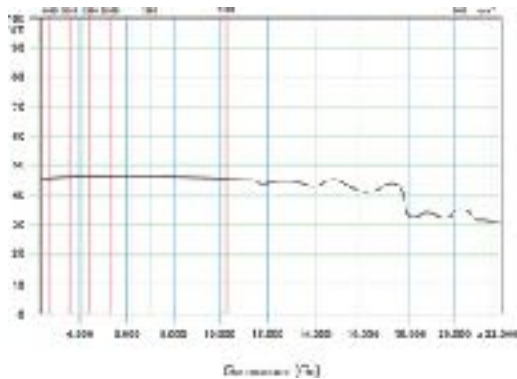


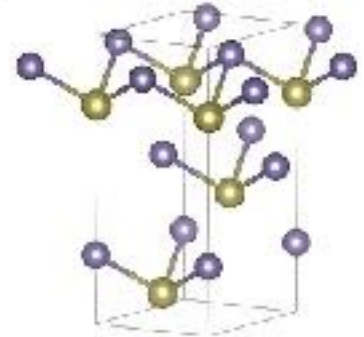
Optical Material Germanium (Ge) Optical Crystals

Germanium (Ge) is useful for ATR prisms, CO₂ laser optics, optical coatings for beam splitters and other IR optical applications. This material is somewhat brittle and tends to chip and spall



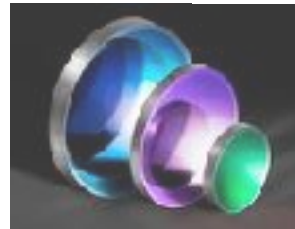
Optical Properties - Germanium (Ge) Optical Crystals

Transmission Range: 1.8μm to 23μm
Refractive Index: 4.0
Reflection Loss: 52.9 @ 10.6μm (2 surfaces)
dN/dT: 396 x 10⁻⁶/°C



Physical Properties-- Germanium (Ge) Optical Crystals

Melting Point: 936° C
Hardness (Knoop): 780 kg/mm²
Young's Modulus: 102.7 GPa (100)
Modulus of Rupture: 7000 psi
Structure: Cubic



Chemical Properties- Germanium (Ge) Optical Crystals

Solubility: Insoluble in water. Soluble in hot H₂SO₄ and aqua-regia.



future in focus...

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