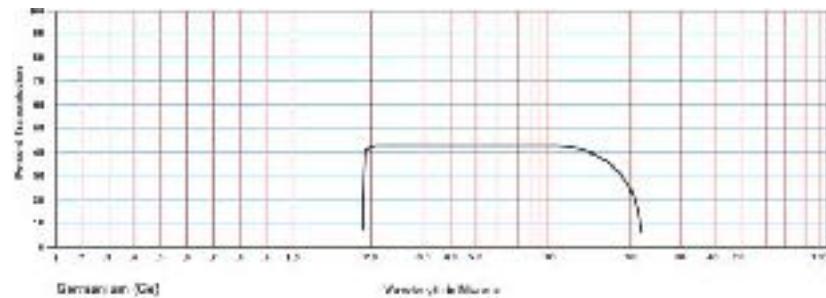
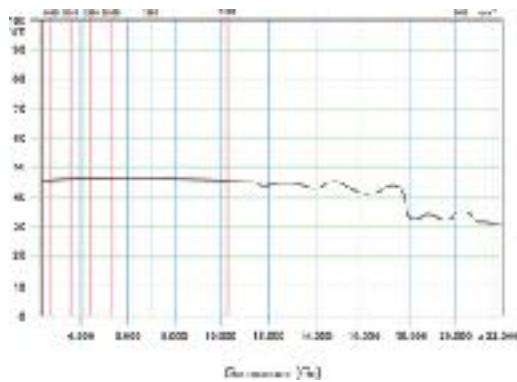


Germanium (Ge) Optical Crystals

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 spal



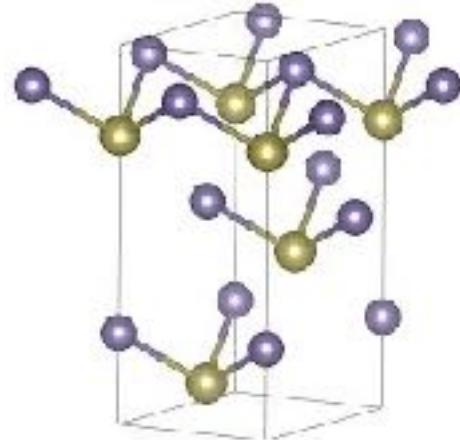
Optical Properties - Germanium (Ge) Optical Crystals

Transmission Range: 1.81μm to 231μm

Refractive Index: 4.0

Reflection Loss: 52.9 @ 10.61μm (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.