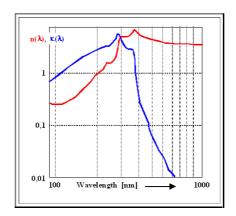
Complex Index of Refraction of Silicon

Here is the complex index of referaction of Silicon (from Handbook of Optical Constants of Solids (E.D. Palik))



Note that the imaginary part κ increases as soon as the wavelength is small enough for band-to-band absorption processes; i.e. $\mathbf{h} \cdot \mathbf{v} > \mathbf{E}_{\mathbf{G}}$ applied (with $\mathbf{E}_{\mathbf{G}}$ = band gap).