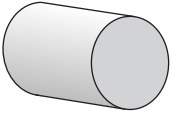
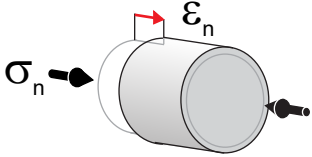


Young's modulus E

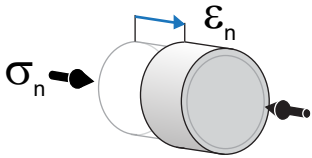
Unstrained



$E = \text{high} = \text{stiff}$

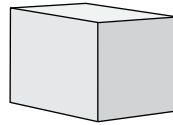


$E = \text{low} = \text{compliant}$

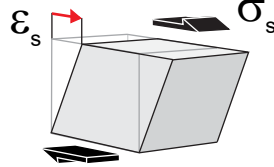


Shear modulus G

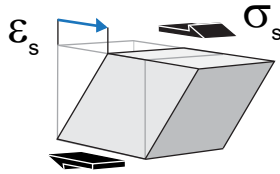
Unstrained



$G = \text{high} = \text{stiff}$

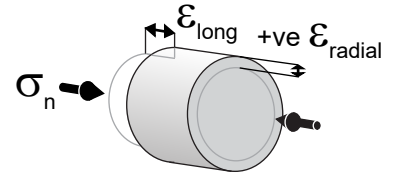


$G = \text{low} = \text{compliant}$

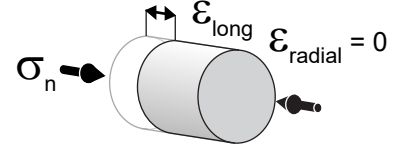


Poisson's ratio ν

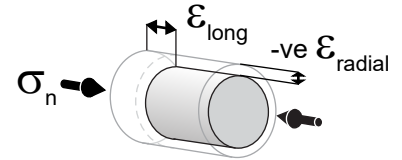
$\nu > 0$



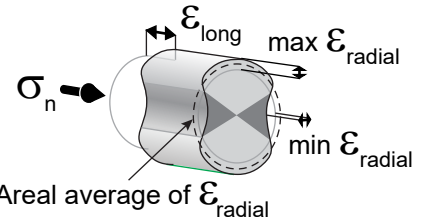
$\nu = 0 = \text{perfectly compressible}$



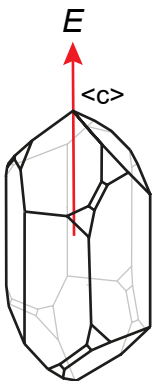
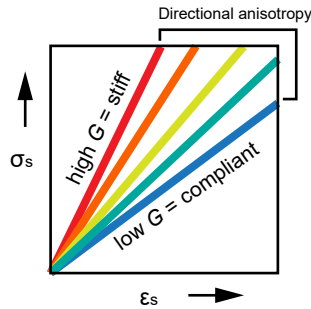
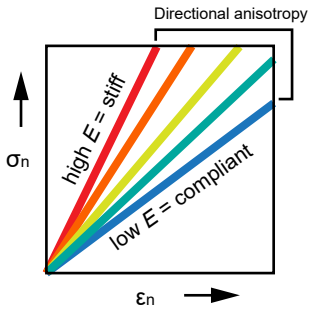
$\nu < 0 = \text{auxetic}$



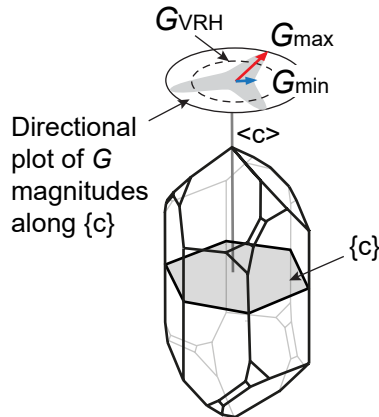
Radial (areal) anisotropy of ν



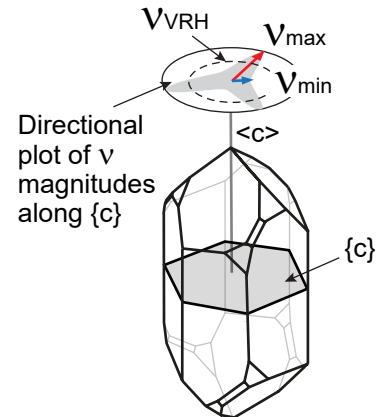
■ = Range of auxetic directions



Directional single scalar value of E



'Within plane' radial anisotropy of G



Radial (areal) anisotropy of ν