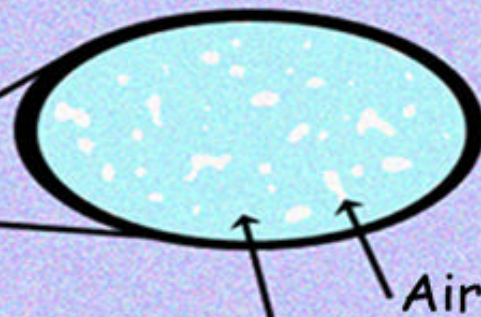


Cause 3: Mixed Density

A mixed density is when the total density of something includes the density of more than one material or substance.

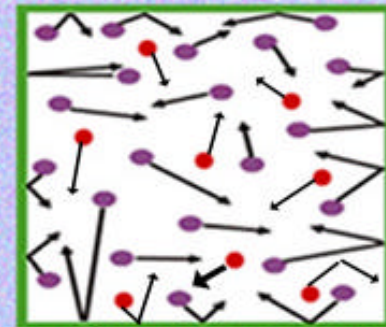
Styrofoam



Styrofoam

In a piece of Styrofoam, there is air between the bits of Styrofoam (or Styrene). It is a mixed density because the total density of the piece includes the density of the Styrofoam material PLUS the density of the air inside.

Gas



In a gas, molecules (or individual atoms) can be more or less spread out depending on certain conditions, such as temperature. It can also be a mixed density with other atoms or molecules in between (for instance, other gases, water vapor, etc.)

***At this level, there can be air in the spaces. Where there is air, the density is mixed. You have to add up the density of the air to the density of the other materials.**