

Chemistry



What are the 4 main types of atomic bonding?

Answer:

1. **Ionic (Salt)**
2. **Covalent (Rubber)**
3. **Metallic (Salt)**
4. **Covalent with polar molecules giving rise to van de Waals forces (water)**

Can you explain the relationships between bond type and material properties?

Answer – Broadly Metallic bonds are strong leading to. Ionic bonds less so but melting points are still very high. Covalent bonds form molecules which can be large or small. The properties depend on the structure of these molecules.

In all cases the properties also depend on crystallography and micro structure.

Electro negativity

What dictates the type of bonds which will form in substances?