	gether by either van der waals forces, or by dipole-dipole forces or by H-bonds.	together by strong covalent bonds called cross-links.
	Polymer chains  Weak inter-molecular forces	Polymer chains  Cross-link
5. 6. 7. 8.	cooling.  Low molecular weight thermoplastics are soluble in their suitable solvents.	They are generally insoluble in any solvent.  They can't be re-moulded and hence cannot be re-used.  They cannot be re-claimed from waste. They cannot be recycled.  They undergo chemical changes such as further polymerisation and cross-linking during moulding process.  They are brittle materials.  Examples: PF, UF, MF, Epoxy, XLPE etc.
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Thermoplastics

They are formed either by addition or by

condensation polymerisation reactions.

They have either linear or branched

Adjacent polymer chains are held to-

1.

2.

3.

structures.

**Thermosets** 

They are formed by condensation

They have three dimensional, cross-

Adjacent polymer chains are held

polymerisation reactions.

linked network structure.