

**How do the following characteristics of the following polymers affect their properties?**

<b>CHARACTER</b>	<b>EFFECT</b>	<b>EFFECTS</b>
High molecular weight of the chains is achieved that forms crosslinks between chains	<b>Elastomer</b>	Provides flexibility to the polymer matrix & allows stretch and contraction. Crosslinks prevent the chains to slip
Low molecular weight is also formed that is not crosslinked	<b>Plastic</b>	Provides a matrix that holds the other crosslinked chains together and prevents elongation of chains
High molecular weight is achieved by using the regular head-to-tail arrangement	<b>Crystalline or Semicrystalline</b>	The molecules being packed in regular order to form crystals
Low molecular weight is achieved by using irregular arrangement	<b>Americ</b>	Prevents formation of regular crystal lattice structure and hence amorphous structure
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