

**Electric Charge:** Electric charge is the physical property of matter that causes it to experience a force when placed in an electromagnetic field. There are two types of electric charges: *positive* and *negative* (commonly carried by protons and electrons respectively). Like charges repel and unlike attract. An absence of net charge is referred to as *neutral*. An object is negatively charged if it has an excess of electrons, and is otherwise positively charged or uncharged. The SI derived unit of electric charge is the coulomb (C).

After you pass a plastic comb through your hair a few times. You will find that can exert a force on individual strands of your hair. You may also observe that, Once the stands of hair are attracted to the comb and come into contact with it , They may no longer be attracted to it.

It seems reasonable to conclude that the attraction between the comb and the hair is a result of some physical entity being transferred from one to the other when they rub together, with the same physical