**Carbon Black & Black Masterbatch**

**Carbon Black**Carbon black is a generic term for finely divided carbon. Carbon black is produced through the incomplete combustion of a petroleum feedstock.  Under magnification, the composition of carbon black particles can be measured. The primary particles are measured in nanometers (mµ).  The **primary particles** join through van der Waals forces to form tightly bound clusters called **aggregrates**.  The size and shape of the aggregate defines the structure of the carbon black.  A highly structured carbon black would be composed of many carbon black particles combined into a multi-branched aggregate. The aggregates loosely combine to form **agglomerates**.



 **Particle size** has a direct influence on performance properties. The particle sizes
with typical ranges of 14mµ – 90mµ are used in the plastics industry.  The chart below demonstrates the influence of particle size on several critical indices.



**Black Masterbatch**Black concentrates are used not only for the coloration of plastics, but also to impart special properties such as conductivity and light stability.  Ampacet has a vast array of black concentrates designed to meet your particular requirements.