7. The method of claim 6, wherein, the polymer flow index is reduced from about 5 % to about 50 % as compared to the second polymer.

8. The method of claim 1, wherein the flow index modifier is 2,4-hexadiene and is from 0.05 parts per million to 5.00 parts per million based upon the monomers.

9. The method of claim 8, wherein, providing an active amount of the flow index modifier to the polymerization reactor forms a polymer having a polymer flow index that increased as compared to a second polymer having a different polymer flow index, where the second polymer is formed by a same polymerization process, but without utilizing an active amount of the flow index modifier.

10. The method of claim 9, wherein, the polymer flow index is increased from about 50 % to about 250 % as compared to the second polymer.