What is claimed is:

1. A polymerization process, the process comprising contacting one or more monomers, at least one catalyst system, and a condensing agent comprising a majority of 2,2-dimethylpropane under polymerizable conditions in a fluidized bed reactor operating in a condensed mode to produce a polyolefin polymer; wherein the production rate of the polyolefin polymer is at least 20% greater than the same process polymerizing with another C_4-C_8 condensing agent.

2. A polymerization process, the process comprising contacting one or more monomers, at least one catalyst system, and a condensing agent comprising a mixture of 2,2-dimethylpropane and at least another C_4-C_8 condensing agent under polymerizable conditions in a fluidized bed reactor operating in a condensed mode to produce a polyolefin polymer.

3. The process of claim 2, wherein the production rate of the polyolefin polymer is at least 20% greater than the same process polymerizing substantially free of 2,2-dimethylpropane.

4. The process of claim 1, wherein the production rate of the polyolefin polymer is at least 25% greater than the same process polymerizing with another C_4-C_8 condensing agent.

5. The process of claim 1, wherein the production rate of the polyolefin polymer is at least 30% greater than the same process polymerizing with another C_4-C_8 condensing agent.

6. The process of claim 2, wherein the C_4-C_8 condensing agent comprises n-butane, isobutane, n-pentane, isopentane, n-hexane, isohexane, n-heptane, n-octane, or mixtures thereof.

7. The process of claim 2, wherein the C_4-C_8 condensing agent is isopentane.

8. The process of claim 2, wherein the ratio of the 2,2-dimethylpropane to the C_4-C_8 condensing agent is greater than or equal to 50:50.

9. The process of claim 2, wherein the ratio of the 2,2-dimethylpropane to the C_4-C_8 condensing agent is greater than or equal to 65:35.

10. The process of claim 2, wherein the ratio of the 2,2-dimethylpropane to the C_4-C_8 condensing agent is greater than or equal to 85:15.

11. The process of claim 1, wherein the condensing agent consists essentially of 2,2-dimethylpropane.

12. A polymerization process comprising, contacting one or more monomers, at least one catalyst system, and a condensing agent comprising a majority of 2,2-dimethylpropane under polymerizable conditions to produce a polyolefin polymer, wherein the polyolefin polymer is a copolymer of ethylene and one or more C_3-C_{12} alpha-olefins, and wherein the production rate of the polyolefin polymer is at least 20% greater than the same process polymerizing with another C_4-C_8 condensing agent.

13. The process of claim 1, wherein the polyolefin polymer is a copolymer of ethylene and C_4-C_8 alpha-olefin.

14. The process of claim 1, wherein the polyolefin polymer has a density from 0.905 g/cm^3 to 0.918 g/cm^3.

15. The process of claim 1, wherein the polyolefin polymer has a melt index ($I_{2.16}$) (ASTM D1238) from 15 g/10 min to 100 g/10 min.

16. The process of claim 1, wherein the at least one catalyst system comprises a Ziegler-Natta, chromium, chromium oxide, $AlCl_3$, cobalt, iron, palladium, vanadium, metallocene catalyst, or mixtures thereof.

17. The process of claim 1, wherein the polyolefin polymer has a density from 0.910 g/cm^3 to 0.915 g/cm^3.

18. The process of claim 1, wherein operating in the condensed mode comprises introducing at least a portion of the condensing agent into the fluidized bed reactor in a liquid phase.

19. The process of claim 1, wherein a level of condensable fluid in a liquid and a gas entering the fluidized bed reactor is greater than 5 weight percent based on a total weight of the liquid and the gas entering the reactor.

20. The process of claim 3, wherein operating in the condensed mode comprises introducing at least a portion of the condensing agent into the fluidized bed reactor in a liquid phase.