were identical (within experimental error) to the measured behavior of the pristine (unencapsulated) devices. This shows that the barrier stacks and deposition methods are compatible with OLED device manufacturing.

Thus, the present invention provides a barrier stack with the exceptional barrier properties necessary for hermetic sealing of an OLED. It permits the production of an encapsulated OLED.

While certain representative embodiments and details have been shown for purposes of illustrating the invention, it will be apparent to those skilled in the art that various changes in the compositions and methods disclosed herein may be made without departing from the scope of the invention, which is defined in the appended claims.

What is claimed is:

1. An encapsulated organic light emitting device comprising:

a first barrier stack comprising at least one first barrier layer and at least one first polymer layer wherein at least one of the at least one first polymer layers comprises an acrylate-containing polymer;

an organic light emitting layer stack adjacent to the first barrier stack; and

a second barrier stack comprising at least one second barrier layer and at least one second polymer layer, the second barrier stack adjacent to the organic light emitting layer stack.

2. The encapsulated organic light emitting device of claim **1** further comprising a substrate adjacent to the first barrier stack on a side opposite to the organic light emitting layer stack.

3. The encapsulated organic light emitting device of claim **2** further comprising at least one first intermediate barrier stack located between the substrate and the first barrier stack, the first intermediate barrier stack comprising at least one third polymer layer and at least one third barrier layer.

4. The encapsulated organic light emitting device of claim **2** wherein the substrate comprises a flexible substrate material.

5. The encapsulated organic light emitting device of claim **4** wherein the flexible substrate material is selected from polymers, metals, paper, fabric, and combinations thereof.

6. The encapsulated organic light emitting device of claim **2** wherein the substrate comprises a rigid substrate material.

7. The encapsulated organic light emitting device of claim **6** wherein the rigid substrate material is selected from glass, metal, and silicon.

8. The encapsulated organic light emitting device of claim **3** wherein at least one of the at least one third polymer layers comprises an acrylate-containing polymer.

9. The encapsulated organic light emitting device of claim **1** further comprising at least one second intermediate barrier stack located between the organic light emitting layer stack and either the first or second barrier stacks, the second intermediate barrier stack comprising at least one fourth polymer layer and at least one fourth barrier layer.

10. The encapsulated organic light emitting device of claim **9** wherein at least one of the at least one fourth polymer layers comprises an acrylate-containing polymer.

11. The encapsulated organic light emitting device of claim **1** wherein the at least one first barrier layer is substantially transparent.

12. The encapsulated organic light emitting device of claim **1** wherein the at least one second barrier layer is substantially transparent.

13. The encapsulated organic light emitting device of claim **1** wherein at least one of the at least one first and second barrier layers comprise a material selected from metal oxides, metal nitrides, metal carbides, metal oxynitrides, and combinations thereof.

14. The encapsulated organic light emitting device of claim **13** wherein the metal oxides are selected from silica, alumina, titania, indium oxide, tin oxide, indium tin oxide, and combinations thereof.

15. The encapsulated organic light emitting device of claim **13** wherein the metal nitrides are selected from aluminum nitride, silicon nitride, and combinations thereof.

16. The encapsulated organic light emitting device of claim **1** wherein the at least one first barrier layer is substantially opaque.

17. The encapsulated organic light emitting device of claim **1** wherein the at least one second barrier layer is substantially opaque.

18. The encapsulated organic light emitting device of claim **1** wherein at least one of the at least one first and second barrier layers is selected from opaque metals, opaque polymers, and opaque ceramics.

19. The encapsulated organic light emitting device of claim **1** wherein at least one of the at least one second polymer layers comprises an acrylate-containing polymer.

20. The encapsulated organic light emitting device of claim **1** wherein the organic light emitting layer stack comprises a first electrode, an electroluminescent layer, and a second electrode.

21. The encapsulated organic light emitting device of claim **20** wherein the electroluminescent layer comprises a hole transporting layer, and an electron transporting layer.

22. An encapsulated organic light emitting device comprising:

a first intermediate barrier stack comprising at least one polymer layer and at least one barrier layer;

a first barrier stack comprising at least one first barrier layer and at least one first polymer layer adjacent to the first intermediate barrier stack;

an organic light emitting layer stack adjacent to the first barrier stack;

a second intermediate barrier stack comprising at least one polymer layer and at least one barrier layer, the second intermediate barrier stack adjacent to the organic light emitting layer stack; and

a second barrier stack comprising at least one second barrier layer and at least one second polymer layer, the second barrier stack adjacent to the second intermediate barrier stack wherein at least one of the polymer layers in the first intermediate barrier stack, the first barrier stack, the second intermediate barrier stack, or the second barrier stack comprises an acrylate-containing polymer.

23. The encapsulated organic light emitting device of claim **22** further comprising a substrate adjacent to the first intermediate barrier stack on a side opposite to the first barrier stack.

24. An encapsulated organic light emitting device comprising:

a substrate;

an organic light emitting layer stack adjacent to the substrate;

a barrier stack comprising at least one barrier layer and at least one polymer layer, the barrier stack adjacent to the organic light emitting layer stack wherein at least one of the at least one polymer layers comprises an acrylate-containing polymer.

25. The encapsulated organic light emitting device of claim **24** further comprising an intermediate barrier stack