In brief summary, a sheet of the disclosure comprises: (1) a core member comprising one or more layers and having a first major surface and (2) a slip control layer as described herein. The slip control layer is disposed on at least a portion of the first major surface and comprises: (i) a footing layer disposed on the first major surface of the core member, (iii) a binder layer disposed on the footing layer, and (iii) an array of particles disposed in the binder layer and footing layer and protruding therefrom. Hence, in a first aspect, there is provided a sheet comprising: (1) a core member comprising a multilayer optical film ~~having one or more layers and~~ having a first major surface and (2) a slip control layer disposed on at least a portion of the first major surface, wherein the slip control layer comprises: (i) a footing layer disposed on at least a portion of the first major surface of the core member, wherein the footing layer is viscoelastic and has a T_g that is lower than either the T_g or the T_m of the polymer at the first major surface of the core member, and wherein the footing layer is from about 0.5 to about 3 microns thick, (ii) a binder layer disposed on the footing layer, and (iii) an array of particles disposed in the binder layer and footing layer and protruding therefrom, wherein the average diameter of the particles is greater than the combined thickness of the footing layer and binder layer such that the particles protrude from the slip control layer opposite the core member, and wherein the sheet has been subjected to heating and stretching such that the particles were sunk into the footing layer. In sheets of the disclosure, the average diameter of the particles is greater than the combined thickness of the foot layer and binder layer.

In a second aspect, there is provided the sheet as defined herein arranged in substantially planar form. In a third aspect, there is provided a plurality of sheets as defined herein arranged in a stack. In a fourth aspect, there is provided the sheet as defined herein wound upon itself into roll form.

Briefly summarizing, the method of the disclosure for making such sheets comprises: (1) providing a core member comprising one or more layers and having a first major surface; (2) forming a footing layer on at least a portion of the first major surface; (3) applying a binder layer composition containing particles as described herein on at least a portion of the footing layer; then (5) tentering the assembly under sufficient heat to soften the footing layer such that particles sink into the footing layer perhaps so far so as to contact the first major surface of the core member, wherein the average diameter of the particles is greater than the combined thickness of the footing layer and the binder layer. Hence, in a fifth aspect, there is provided a process for making a sheet comprising: (1) providing a core member comprising a multilayer optical film ~~having one or more layers and~~ having a first major surface; (2) forming a footing layer on at least a portion of the first major surface, wherein the footing layer is viscoelastic and has a T_g that is lower than either the T_g or the T_m of the polymer at the first major surface of the core member and wherein the footing layer is from about 0.5 to about 3 microns thick; (3) applying a binder layer composition comprising a film forming polymer and particles to the surface of the footing layer; then (4) tentering the assembly under sufficient heat to soften the footing layer and facilitate stretching of the core member such that the particles sink into the footing layer, the footing layer, binder layer, and particles constituting a slip control layer, wherein the average diameter of the particles is greater than the combined thickness of the footing layer and binder layer such that the particles protrude from the surface of the slip control layer opposite the core member.

What is claimed is:

1. A sheet comprising:

(1) a core member comprising a multilayer optical film ~~having one or more layers and~~ having a first major surface and

(2) a slip control layer disposed on at least a portion of the first major surface, wherein the slip control layer comprises: (i) a footing layer disposed on at least a portion of the first major surface of the core member, wherein the footing layer is viscoelastic and has a T_g that is lower than either the T_g or the T_m of the polymer at the first major surface of the core member, and wherein the footing layer is from about 0.5 to about 3 microns thick, (ii) a binder layer disposed on the footing layer, and (iii) an array of particles disposed in the binder layer and footing layer and protruding therefrom, wherein the average diameter of the particles is greater than the combined thickness of the footing layer and binder layer such that the particles protrude from the slip control layer opposite the core member, and wherein the sheet has been subjected to heating and stretching such that the particles were sunk into the footing layer.

2. The sheet of claim 1 wherein the footing layer is amorphous.

3. The sheet of claim 1 wherein the footing layer has a T_g of at least about 85°C.

4. The sheet of claim 1 wherein the footing layer is strippable from the core member.

5. The sheet of claim 1 wherein the binder layer is from about 100 to about 500 nanometers thick.

6. The sheet of claim 1 wherein a mean particle diameter of the particles is from about 2 to about 30 microns.

7. The sheet of claim 1 wherein the particles constitute from about 5 to about 20 weight percent of the total weight of the particles plus binder layer.

10. A plurality of sheets of claim 9 arranged in a stack.

11. The sheet of claim 1 wound upon itself into roll form.

12. A process for making a sheet comprising:

(1) providing a core member comprising a multilayer optical film ~~having one or more layers and~~ having a first major surface;

(2) forming a footing layer on at least a portion of the first major surface, wherein the footing layer is viscoelastic and has a T_g that is lower than either the T_g or the T_m of the polymer at the first major surface of the core member and wherein the footing layer is from about 0.5 to about 3 microns thick;

(3) applying a binder layer composition comprising a film forming polymer and particles to the surface of the footing layer; then

(4) tentering the assembly under sufficient heat to soften the footing layer and facilitate stretching of the core member such that the particles sink into the footing layer, the footing layer, binder layer, and particles constituting a slip control layer, wherein the average diameter of the particles is greater than the combined thickness of the footing layer and binder layer such that the particles protrude from the surface of the slip control layer opposite the core member.

13. The process of claim 12 wherein the footing layer and core member are formed simultaneously via coextrusion.

14. The process of claim 12 wherein the footing layer is amorphous.

15. The process of claim 12 wherein the footing layer has a T_g of at least about 85°C.

16. The process of claim 12 wherein the binder layer composition comprises a film forming component, particles, and water.

17. The process of claim 12 wherein the binder layer composition is applied to the surface of the footing layer and self-levels.

18. The process of claim 12 wherein the binder layer composition is at least partially dried before tentering.