corner elements; a second major surface opposite the first major surface, the second major surface being substantially planar and including a polycarbonate; and a topcoat adjacent to at least a portion of the second major surface, wherein the topcoat includes a solvent-based composition. ~~In some embodiments, the solvent-based composition includes at least one of (1) a solvent-borne acrylic or (2) a solvent-borne vinyl.~~ ; wherein the top coat includes between 3% by weight and about 10% by weight of a UV absorber.

[0010] Some embodiments of the present disclosure relate to a method of making retroreflective sheeting, comprising: providing a sheeting having (1) a first major surface that is a structured surface having a structure imparted by a plurality of prismatic cube corner elements; and (2) a second major surface opposite the first major surface, the second major surface being substantially planar and including a polycarbonate; and placing a topcoat composition adjacent to at least a portion of the second major surface, wherein the topcoat includes a solvent-based composition. In some embodiments, the solvent-based composition includes at least one of (1) a solvent-borne acrylic or (2) a solvent-borne vinyl. In some embodiments, the method further comprises removing the solvent from the solvent-borne topcoat composition. In some embodiments, the method further includes removing substantially all of the solvent from the topcoat composition within 15 seconds of placing the topcoat composition adjacent to the second major surface. In some embodiments, the method further includes removing substantially all of the solvent from the topcoat composition within 12 seconds of placing the topcoat composition adjacent to the second major surface. In some embodiments, the method further includes removing substantially all of the solvent from the topcoat composition within 10 seconds of placing the topcoat composition adjacent to the second major surface. In some embodiments, the method further includes removing substantially all of the solvent from the topcoat composition within 8 seconds of placing the topcoat composition adjacent to the second major surface. In some embodiments, the method further includes removing substantially all of the solvent from the topcoat composition within 5 seconds of placing the topcoat composition adjacent to the second major surface.

[0011] In some embodiments, the topcoat has a thickness of less than 0.5 mil when dry. In some embodiments, the topcoat has a thickness of less than 0.4 mil when dry. In some embodiments, the topcoat has a thickness of less than 0.3 mil when dry. In some embodiments, the topcoat has a thickness of less than 0.25 mil when dry. In some embodiments, the topcoat has a thickness of less than 0.2 mil when dry. In some embodiments, the topcoat has a thickness of less than 0.1 mil when dry. As used herein, 1 mil = 0.001 inch.

[0012] In some embodiments, the topcoat includes a UV absorber. In some embodiments, the topcoat includes at least 10% by weight UV absorber. In some embodiments, the topcoat includes multiple layers and the layers are the same as one another. In some embodiments, the topcoat includes multiple layers and the layers differ from one another. In some embodiments, the topcoat includes a solvent-borne vinyl chloride copolymer.

What is claimed is:

1. Retroreflective sheeting, comprising:

a first major surface that is a structured surface having a structure imparted by a plurality of prismatic cube corner elements;

a second major surface opposite the first major surface, the second major surface being substantially planar and including a polycarbonate; and

a topcoat adjacent to at least a portion of the second major surface, wherein the topcoat is a solvent-based composition; wherein the topcoat includes between 3% by weight and about 10% by weight of a UV absorber.

2. The retroreflective sheeting of claim 1, wherein the topcoat has a thickness of less than 0.5 mil when dry.

3. The retroreflective sheeting of ~~any of the preceding claims~~claim 1, wherein the plurality of prismatic cube corner elements include at least one of truncated cube corner elements, full cube corner elements, or preferred geometry cube corner elements.

~~4. The retroreflective sheeting of any of the preceding claims, wherein the second major surface is part of at least one of (1) a land layer or (2) a body layer.~~

~~5~~4. The retroreflective sheeting of ~~any of the preceding claims~~claim 1, wherein the plurality of prismatic cube corner elements includes a thermoplastic polymer.

~~6~~5. The retroreflective sheeting of claim ~~4~~5, wherein the thermoplastic polymer is at least one of an acrylic polymer, a polycarbonate, a polyester, a polyimide, a fluoropolymer, a polyamide, a polyetherketone; a poly(etherimide); a polyolefin; a poly(phenylene ether); a poly(styrene); a styrene copolymer; a silicone modified polymer; a cellulosic polymer; a fluorine modified polymer; and mixtures of the above polymers.

~~7. The retroreflective sheeting of any of the preceding claims, wherein the plurality of prismatic cube corner elements includes a polycarbonate.~~

~~8~~6. The retroreflective sheeting of ~~any of the preceding claims~~claim 1, wherein the topcoat includes multiple layers and the layers are the same as one another.

~~97~~. The retroreflective sheeting of ~~any of the preceding claims~~claim 1, wherein the topcoat includes multiple layers and the layers differ from one another.

~~108~~. The retroreflective sheeting of ~~any of the preceding claims~~claim 1, wherein the topcoat includes at least one of methyl methacrylate resin, acrylic resin, alkyd resin, polyurethane resin, epoxy resin, polyester resin, polycarbonate resin, polyvinyl butyral, cellulose acetatebutyrate, or vinyl chloride copolymer.

~~119~~. The retroreflective sheeting of ~~any of the preceding claims~~claim 1, further comprising:
a seal film.

~~12. The retroreflective sheeting of claim 11, wherein the seal film is a polyester.~~

~~13~~10. The retroreflective sheeting of ~~any of the preceding claims~~claim 1, wherein the amount of one or more of crazing or haze reduces retroreflective brightness by less than 90%.

~~14~~11. The retroreflective sheeting of ~~any of the preceding claims~~claim 1, wherein the topcoat includes at least one of vinyl or acrylic.

~~15~~12. The retroreflective sheeting of ~~any of the preceding claims~~claim 1, further including a specular reflective coating.

~~16~~13. A method of making retroreflective sheeting, comprising:

providing a sheeting having (1) a first major surface that is a structured surface having a structure imparted by a plurality of prismatic cube corner elements; and (2) a second major surface opposite the first major surface, the second major surface being substantially planar and including a polycarbonate; and

placing a topcoat composition adjacent to at least a portion of the second major surface, wherein the topcoat is solvent-based.

~~17~~14. The method of claim ~~16~~13, wherein the topcoat is less than 0.5 mil thick (when dry).

~~18~~15. The method of ~~any of claims~~claim ~~16-17~~13, further comprising:

removing a solvent from the topcoat composition.

~~19~~16. The method of claim ~~18~~13, further comprising:

removing substantially all of the solvent from the topcoat composition within 15 seconds of placing the topcoat composition adjacent to the second major surface.

~~20. The method of claim 18, further comprising:~~

~~removing substantially all of the solvent from the topcoat composition within 12 seconds of placing the topcoat composition adjacent to the second major surface.~~

~~21. The method of claim 18, further comprising:~~

~~removing substantially all of the solvent from the topcoat composition within 10 seconds of placing the topcoat composition adjacent to the second major surface.~~

~~22. The method of claim 18, further comprising:~~

~~removing substantially all of the solvent from the topcoat composition within 8 seconds of placing the topcoat composition adjacent to the second major surface.~~

~~23. The method of claim 18, further comprising:~~

~~removing substantially all of the solvent from the topcoat composition within 5 seconds of placing the topcoat composition adjacent to the second major surface.~~

~~24~~17. The method of ~~any of claims~~claim ~~16-23~~13, wherein the plurality of prismatic cube corner elements include at least one of truncated cube corner elements, full cube corner elements, or preferred geometry cube corner elements.

~~25. The method of any of claims 16-24, wherein the second major surface is part of at least one of (1) a land layer or (2) a body layer.~~

~~26. The method of any of claims 16-25, wherein the plurality of prismatic cube corner elements includes a polycarbonate.~~

~~27~~18. The method of ~~any of claims~~claim ~~16-26~~13, wherein the topcoat includes multiple layers and the layers are the same as one another.

~~28~~19. The method of ~~any of claims~~claim ~~16-27~~13, wherein the topcoat includes multiple layers and the layers differ from one another.

~~29~~20. The method of ~~any of claims~~claim ~~16-28~~13, wherein the topcoat includes a UV absorber.

~~30~~21. The method of ~~any of claims~~claim ~~16-29~~13, wherein the topcoat includes at least one of methyl methacrylate resin, acrylic resin, alkyd resin, polyurethane resin, epoxy resin, polyester resin, polycarbonate resin, polyvinyl butyral, cellulose acetatebutyrate, or vinyl chloride copolymer.

~~31. The method of any of claims 16-30, wherein the topcoat has a thickness of less than 0.4 mil.~~

~~32. The method of any of claims 16-31, wherein the topcoat has a thickness of less than 0.3 mil.~~

~~33. The method of any of claims 16-32, wherein the topcoat has a thickness of less than 0.25 mil.~~

~~34. The method of any of claims 16-33, wherein the topcoat has a thickness of less than 0.2 mil.~~

~~35. The method of any of claims 16-34, wherein the topcoat has a thickness of less than 0.1 mil.~~

~~36~~22. The method of ~~any of claims~~claim ~~16-35~~13, further comprising:

placing a seal film adjacent to the structured surface.

~~37. The method of claim 36, wherein the seal film is a polyester.~~

~~38~~23. The method of ~~any of claims~~claim ~~16-37~~13, wherein the amount of one or more of crazing or haze reduces retroreflective brightness by less than 90%.

~~39. The method of any of claims 16-38, wherein the topcoat includes at least one of vinyl or acrylic.~~

4024. The retroreflective sheeting of ~~any of claims~~claim ~~16-39~~13, wherein the retroreflective sheeting further includes a specular reflective coating.

~~41. The method of any of claims 16-40, wherein the topcoat includes a UV absorber.~~

~~42. The method of any of claims 16-41, wherein the topcoat includes at least 10% by weight UV absorber.~~