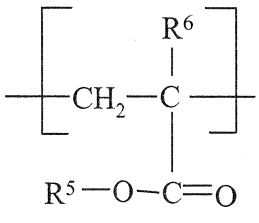
Z is a benzoyl group, a 4,6-bisphenyl[1,3,5]triazin-2-yl group, or a 2H-benzotriazol-2-yl group, wherein the benzoyl group, 4,6-bisphenyl[1,3,5]triazin-2yl group, and 2H-benzotriazol2-yl group are optionally substituted by one or more alkyl, aryl, alkoxy, hydroxyl, or halogen substituents, or a combination of these substituents.

4. The copolymer of any one of claims 1 to 3, wherein the pendent ultraviolet absorbing group comprises a triazine.

45. The copolymer of any one of claims 1 to 4, wherein Rf represents a perfluoroalkyl group having up to 4 carbon atoms.

56. The copolymer of any one of claims 1 to 5, further comprising a third divalent unit represented by formula:



wherein

R^6 is hydrogen or methyl; and

R^5 is alkyl having from 1 to 4 carbon atoms.

67. The copolymer of any one of claims 1 to 6, wherein the second divalent unit is present in the copolymer in an amount of up to 50 percent by weight, based on the total weight of the copolymer.

8. The copolymer of any one of claims 1 to 7, wherein the copolymer is an oligomer with a number average molecular weight of up to 50,000 grams per mole.

9. The copolymer of claim 8, wherein the oligomer has a number average molecular weight greater than 5000 grams per mole.

10. The copolymer of claim 8 or 9, wherein the oligomer has a number average molecular weight of less than 20000 grams per mole.

711. A composition comprising a fluoropolymer and the copolymer of any one of claims 1 to 610.

~~8~~12. The composition of claim ~~7~~11, further comprising poly(methyl methacrylate).

~~9~~13. The composition of claim ~~7~~11 or 12, wherein the fluoropolymer is present in the composition in an amount of at least 50 percent by weight, based on the total weight of the composition.

14. The composition of any one of claims 11 to 13, wherein the copolymer is present in the composition in an amount up to 10 percent by weight, based on the total weight of the composition.

~~10~~15. The composition of ~~claim 7~~any one of claims 11 to 14, further comprising a second copolymer comprising the first divalent unit and at least one of the second or third divalent units.

16. The composition of claim 15, wherein the second copolymer is a copolymer of methyl methacrylate and an acrylate- or methacrylate-functional ultraviolet absorbing group.

~~11~~17. The composition of claim ~~10~~15 or 16, wherein the copolymer and the second copolymer are present in the composition in an amount up to 10 percent combined weight, based on the total weight of the composition.

~~12~~18. The composition of any one of claims 11 to 17, wherein the composition is essentially free of volatile organic solvent.

~~13~~19. The composition of any one of claims 11 to ~~18~~7, wherein the fluoropolymer is selected from the group consisting of ethylene-tetrafluoroethylene copolymer, a tetrafluoroethylene-hexafluoropropylene copolymer, a tetrafluoroethylene-hexafluoropropylene-vinylidene fluoride copolymer, or polyvinylidene fluoride.

~~14~~20. The composition of any one of claims 11 to ~~19~~7 in the form of a film.

21. The composition of claim 20, wherein the film is a multilayer film.

22. The composition of claim 21, wherein the film is a multilayer optical film.

~~15~~23. A photovoltaic device comprising the composition of any one of claims ~~7~~11 to 22.

24. A method of making a film, the method comprising providing the composition of any one of claims 11 to 19 and extruding the composition into the film.

25. A method of making a composition, the method comprising blending the copolymer of any one of claims 1 to 10 with a fluoropolymer to make the composition.