What is claimed is:

1. A composition comprising:

fluoroplastic particles having a mean particle size of less than 500 nanometers; and

an amorphous fluoropolymer comprising at least one of:

a segment represented by formula I:

$-CF(R_f)-(CX_2)_n-(CX_2CXR)_m-O-R''_f-O_k-(CXR'CX_2)_p-(CX_2)_q-CF(R'_f)-$ (I); or

a terminal segment represented by formula III:

$R_f-CF(I)-(CX_2)_n-(CX_2CXR)_m-O-R''_f-O_k-(CXR'CX_2)_p-(CX_2)_q-CF(R'_f)-$ (III),

wherein

each X is independently F, H, or Cl;

R_f and R'_f are each independently F or a monovalent perfluoroalkyl having 1 to 3 carbon atoms;

R and R' are each independently F or a partially fluorinated or perfluorinated alkyl having 1 to 3 carbons atoms;

R''_f is a divalent fluoroalkylene having 1 to 8 carbon atoms or a divalent fluorinated alkylene ether having 1 to 20 carbon atoms and at least one ether linkage;

k is 0 or 1; and n, m, p, and q are each independently an integer from 0 to 5, with the proviso that when k is 0, n + m is at least 1 and p + q is at least 1, wherein the amorphous fluoropolymer is a fluoroelastomer gum.

2. The composition of claim 1, wherein the amorphous fluoropolymer is a reaction product of components comprising:

(a) a fluorinated di-iodo ether compound of the following formula II:

$R_f-CF(I)-(CX_2)_n-(CX_2CXR)_m-O-R''_f-O_k-(CXR'CX_2)_p-(CX_2)_q-CF(I)-R'_f$

wherein

each X is independently F, H, or Cl;

R_f and R'_f are each independently F or a monovalent perfluoroalkyl having 1 to 3 carbon atoms;

R and R' are each independently F or a partially fluorinated or perfluorinated alkyl having 1 to 3 carbons atoms;

R''_f is a divalent fluoroalkylene having 1 to 8 carbon atoms or a divalent fluorinated alkylene ether having 1 to 20 carbon atoms and at least one ether linkage;

k is 0 or 1; and n, m, p and q are each independently an integer from 0 to 5, with the proviso that when k is 0, n + m is at least 1 and p + q is at least 1; and

(b) a fluorinated olefin.

3. The composition of claim 2, wherein the components comprise from 0.1-1 wt % of the fluorinated di-iodo ether compound of formula II.

4. The composition of claim 2, wherein the fluorinated olefin comprises at least one of vinylidene fluoride, tetrafluoroethylene, or hexafluoropropylene.

5. The composition of any one of claims 1 to 4, wherein the amorphous fluoropolymer is an amorphous copolymer comprising fluorinated olefin units and units comprising at least one of (a) a Br cure site, (b) a I cure site, (c) a nitrile cure site, or (d) a carbon-carbon double bond.

6. The composition of any one of claims 1 to 5, wherein at least one of the segment represented by formula I or the terminal segment represented by formula III is perfluorinated.

7. The composition of any one of claims 1 to 6, wherein the amorphous fluoropolymer is an amorphous copolymer of a fluorinated olefin and at least one of a fluorinated vinyl ether or fluorinated allyl ether.

8. The composition of claim 7, wherein the fluorinated olefin is tetrafluoroethylene, and wherein the fluorinated vinyl ether comprises at least one of perfluoro (methyl vinyl) ether (PMVE), perfluoro (ethyl vinyl) ether (PEVE), perfluoro (n-propyl vinyl) ether (PPVE-1), perfluoro-2-propoxypropylvinyl ether (PPVE-2), perfluoro-3-methoxy-n-propylvinyl ether, perfluoro-2-methoxy-ethylvinyl ether, or
CF_3-$(CF_2)_2$-O-CF(CF_3)-CF_2-O-CF(CF_3)-CF_2-O-CF=CF_2.

9. The composition of any one of embodiments 1 to 8, wherein the amorphous fluoropolymer further comprises units from at least one of ethylene or propylene.

10. The composition of any one of claim 1 to 9, wherein the fluoroplastic particles comprise a fluoroplastic polymer or fluoroplastic copolymer of a fluorinated olefin.

11. The composition of claim 10, wherein the fluoroplastic particles comprise the fluoroplastic copolymer of the fluorinated olefin and at least one of a fluorinated vinyl ether or fluorinated allyl ether.

12. The composition of claim 11, wherein the fluorinated olefin is tetrafluoroethylene, and wherein the fluorinated vinyl ether comprises at least one of perfluoro (methyl vinyl) ether (PMVE), perfluoro (ethyl vinyl) ether (PEVE), perfluoro (n-propyl vinyl) ether (PPVE-1), perfluoro-2-propoxypropylvinyl ether (PPVE-2), perfluoro-3-methoxy-n-propylvinyl ether, perfluoro-2-methoxy-ethylvinyl ether, or
CF_3-$(CF_2)_2$-O-CF(CF_3)-CF_2-O-CF(CF_3)-CF_2-O-CF=CF_2.

13. The composition of any one of claims 10 to 12, wherein the fluoroplastic copolymer further comprises units comprising at least one of (a) a Br cure site, (b) an I cure site, (c) a nitrile cure site, or (d) a carbon-carbon double bond.

14. The composition of any one of claims 1 to 13, wherein the fluoroplastic particles are present in an amount up to 95 percent by weight, based on the total weight of the composition.

15. The composition of any one of claims 1 to 14, wherein the composition is a latex blend comprising a second latex comprising the fluoroplastic particles and a first latex comprising the amorphous fluoropolymer.

16. The composition of any one of claims 1 to 14, wherein the composition is in the form of a core-shell polymer, wherein the core comprises the fluoroplastic particles, and wherein the shell comprises the amorphous fluoropolymer.

17. The composition of any one of claims 1 to 14, wherein the composition is in the form of core-shell particles, wherein the core comprises the amorphous fluoropolymer and the shell comprises the fluoroplastic.

18. A method of making the composition of any one of claims 1 to 14, the method comprising blending a second latex comprising the fluoroplastic particles and a first latex comprising the amorphous fluoropolymer.

19. A cured fluoroelastomer comprising a product of a curing reaction of the composition of any one of claims 1 to 17 and a peroxide.

20. A shaped article comprising the cured fluoroelastomer of claim 19.