CLAIMS

1. Use of a polyester plasticizer including regularly alternating units of:

a. a glycol or diol; and

b. a dibasic acid,

wherein the polyester plasticizer is end capped with dual benzoic acid esters or hybrid benzoate or acetate esters,

wherein the polyester plasticizer has a Mw of at least 500 to 5000, and

wherein the polyester plasticizer is used in an underbody filled or unfilled sealant polyvinyl chloride plastisol, a vinyl label film, a polyvinyl acetate adhesive or an ethylene vinyl acetate adhesive.

2. The use as claimed in claim 1, wherein the polyester plasticizer consists of:

a propylene glycol succinate end-capped with benzoic acid esters;

a propylene glycol adipate end-capped with benzoic acid esters;

a propylene glycol succinate end-capped with hybrid benzoic acid esters and acetate esters, or

a propylene glycol adipate end-capped with hybrid benzoic acid esters and acetate esters.

3. Use of a polyester plasticizer including regularly alternating units of:

a. a glycol or a diol; and

b. a dibasic acid,

wherein the polyester plasticizer is used in a polysulfide sealant comprising an A-side and a B-side, wherein the A-side contains a polysulfide polymer and a phthalate plasticizer and the B-side comprises a catalyst and the polyester plasticizer, and

wherein the glycol is propylene glycol,

wherein the diol comprises 1,3-butane diol, 1,4-butane diol, or 1,3-propane diol, and

wherein the dibasic acid comprises adipic acid, succinic acid, azelaic acid, glutaric acid or sebacic acid.

4. The use as claimed in claim 1, wherein the vinyl label film is characterized by a surface energy (dynes/cm) over time of greater than 34 and wherein the surface energy over time is retained under high temperature and humidity conditions.

5. An adhesive composition including:

1) a) polyvinyl acetate adhesive; or

b) ethylene vinyl acetate adhesive, and

2) a polyester plasticizer including regularly alternating units:

a. a glycol or diol; and

b. a dibasic acid,

wherein the polyester plasticizer is end capped with dual benzoic acid esters or hybrid benzoate or acetate esters,

wherein the polyester plasticizer has a Mw of at least 500 to 5000,

wherein the glycol is propylene glycol,

wherein the diol comprises 1,3-butane diol, 1,4-butane diol, or 1,3-propane diol, and

wherein the dibasic acid comprises adipic acid, succinic acid, azelaic acid, glutaric acid or sebacic acid.

6. The adhesive composition as claimed in claim 5, wherein the polyester plasticizer includes:

a propylene glycol succinate end-capped with benzoic acid esters;

a propylene glycol adipate end-capped with benzoic acid esters;

a propylene glycol succinate end-capped with hybrid benzoic acid esters and acetate esters, or

a propylene glycol adipate end-capped with hybrid benzoic acid esters and acetate esters.

7. A vinyl label film-forming composition wherein the composition includes:

a. polyvinyl chloride;

b. a filler;

c. a heat stabilizer; and

d. a polyester plasticizer consisting of propylene glycol succinate end-capped with benzoic acid esters, propylene glycol adipate end-capped with benzoic acid esters, propylene glycol succinate end-capped with hybrid benzoic acid esters and acetate esters, or propylene glycol adipate end-capped with hybrid benzoic acid esters and acetate esters.

8. The vinyl label film-forming composition as claimed in claim 7, wherein the film formed by the composition is characterized by a surface energy (dynes/cm) over time of greater than 34 and wherein the surface energy over time is retained under high temperature and humidity conditions.

9. An underbody filled or unfilled sealant polyvinyl chloride plastisol comprising a polyester plasticizer including:

a. a glycol or diol; and

b. a dibasic acid,

wherein the plasticizer: i) is end capped with dual benzoic acid esters or hybrid benzoate or acetate esters; and ii) has a Mw of at least 500 to 5000, and

wherein the glycol is propylene glycol,

wherein the diol comprises 1,3-butane diol, 1,4-butane diol, or 1,3-propane diol, and

wherein the dibasic acid is selected from the group consisting of adipic acid, succinic acid, azelaic acid, glutaric acid and sebacic acid.

10. The plastisol as claimed in claim 9, wherein the polyester plasticizer is a propylene glycol succinate end-capped with benzoic acid esters.