Claims

1. Use of a polyester plasticizer consisting of a propylene glycol adipate end-capped with benzoic acid esters, having a Mw of at least about 500 to about 5000, in a polysulfide or polyvinyl chloride based sealant, a polyvinyl chloride plastisol, a polyvinyl chloride film, a polyvinyl acetate adhesive, or an ethylene vinyl acetate adhesive.

2. Use of a polyester plasticizer consisting of a propylene glycol succinate end-capped with benzoic acid esters, having a Mw of at least about 500 to about 5000, in a polysulfide or polyvinyl chloride based sealant, a polyvinyl chloride plastisol, a polyvinyl chloride film, a polyvinyl acetate adhesive, or an ethylene vinyl acetate adhesive.

3. A two-part polysulfide sealant composition comprising a polyester plasticizer in the B side of the sealant, wherein the polyester plasticizer consists of a propylene glycol adipate end-capped with benzoic acid esters or a propylene glycol succinate end-capped with benzoic acid esters and wherein the polyester plasticizer has a Mw of at least about 500 to about 5000.

4. A caulk composition comprising a polyester plasticizer, consisting of a propylene glycol adipate end-capped with benzoic acid esters or a propylene glycol succinate end-capped with benzoic acid esters and wherein the polyester plasticizer has a Mw of at least about 500 to about 5000.

5. A polyvinyl chloride plastisol composition comprising a polyester plasticizer consisting of a propylene glycol adipate end-capped with benzoic acid esters or a propylene glycol succinate end-capped with benzoic acid esters and wherein the polyester plasticizer has a Mw of at least about 500 to about 5000.

6. A polyvinyl chloride-based film-forming composition comprising: a polyester plasticizer consisting of a propylene glycol adipate end-capped with benzoic acid esters or a

propylene glycol succinate end-capped with benzoic acid esters and wherein the polyester plasticizer has a Mw of at least about 500 to about 5000.

7. An adhesive composition comprising: polyvinyl acetate or ethylene vinyl acetate and a polyester plasticizer consisting of a propylene glycol adipate end-capped with benzoic acid esters or a propylene glycol succinate end-capped with benzoic acid esters and wherein the polyester plasticizer has a Mw of at least about 500 to about 5000

8. Use of a polyester plasticizer consisting of alternating units of a diol and a dibasic acid, having a Mw of at least about 500 to about 5000, in a polysulfide or polyvinyl chloride based sealant, a polyvinyl chloride plastisol, a polyvinyl chloride film, a polyvinyl acetate adhesive, or an ethylene vinyl acetate adhesive, wherein the diol is selected from the group consisting of 1,3-butane diol, 1,4-butane diol, 1,3-propane diol, and mixtures thereof, wherein the dibasic acid is selected from the group consisting of adipic acid, succinic acid, azelaic acid, glutaric acid, sebacic acid, phthalic acid, terephthalic acid, and mixtures of two or more thereof and wherein the polyester is end-capped with dual benzoic acid esters or hybrid benzoate and acetate esters.

9. A polymeric composition comprising an adhesive, sealant, caulk, vinyl film, polyvinyl chloride plastisol, or polyvinyl chloride melt compound, consisting of a polyester plasticizer that is a propylene glycol adipate end-capped with benzoic acid esters or a propylene glycol succinate end-capped with benzoic acid esters and wherein the polyester plasticizer has a Mw of at least about 500 to about 5000.

10. A polymeric composition comprising a polysulfide sealant, waterborne or non-waterborne adhesive, vinyl plastisol, vinyl film, packaging glue, adhesive assembly, label, laminate, envelope, food packaging, wood glue, construction adhesive, transportation product assembly, electronic product assembly, electronic packaging, pressure sensitive adhesive, other sealant, caulk, vinyl flooring, automotive plastisol or melt compounded vinyl, consisting of a plasticizer that is a propylene glycol adipate end-capped with benzoic acid esters or a propylene

glycol succinate end-capped with benzoic acid esters and wherein the polyester plasticizer has a Mw of at least about 500 to about 5000.

11. A polyvinyl film prepared by melt compounding, consisting of a polyester plasticizer that is a propylene glycol adipate end-capped with benzoic acid esters or a propylene glycol succinate end-capped with benzoic acid esters, wherein the polyester plasticizer has a Mw of at least about 500 to about 5000, and wherein the film is characterized by a surface energy (dynes/cm) over time of greater than about 34.

12. The vinyl film of claim 11, wherein the surface energy over time is retained under high temperature and humidity conditions.