CLAIMS

1. Laser-marking additive characterized in that the laser-marking additive comprises a bismuth containing compound and a functionalized polymer having 0.01 to 50 wt% of functional groups, in which the weight percentage is based on the total amount of functionalized polymer and bismuth containing compound, wherein the bismuth containing compound is chosen from the group of Bi_2O_3 and Bi-citrate.

~~2. Laser-marking additive according to claim 1, characterized in that the bismuth containing compound is chosen from the group of Bi_2O_3 and Bi-citrate.~~

~~3.~~2. Laser-marking additive according to any of the claims above, characterized in that the functionalized polymer is a grafted polyethylene or grafted polypropylene.

~~4.~~3. Laser-marking additive according to any of the claims above, characterized in that the functional group is chosen from the group of maleic anhydride or epoxy.

~~5.~~4. Laser-marking additive according to any of the claims above, characterized in that the laser-marking additive comprises at least 0.05 wt% of functional groups, ~~preferably at least 0.1 wt%,~~ in which the weight percentage is based on the total amount of functionalized polymer and bismuth containing compound.

~~6.~~5. Laser-marking additive according to any of the claims above, characterized in that the laser-marking additive comprises at most 30 wt% functional groups~~, preferably at most 20 wt% functional groups,~~ in which the weight percentage is based on the total amount of functionalized polymer and bismuth containing compound.

~~7.~~6. Laser-marking additive according to any of the claims above, characterized in that the laser-marking additive is antimony-free.

~~8.~~7. Laser-marking additive according to any of the claims above, characterized in that the laser-marking additive is halogen-free.

~~9.~~8. Method of preparation of a laser-marking additive according to any of the claims above, characterized in that the functionalized polymer is melt-blended with the bismuth-containing compound.

~~10.~~9. Laser-markable composition comprising a thermoplastic polymer as matrix polymer wherein the thermoplastic polymer is chosen from the group of polyamides, polyesters and polycarbonates and a laser-marking additive according to any of the claims 1 to 7~~8~~ and optionally a further thermoplastic polymer.

~~11. Laser-markable composition according to claim 10, characterized in that the thermoplastic polymer is chosen from the group of polyamides, polyesters and polycarbonates.~~

~~12.~~10. Laser-markable composition according to claim ~~10 or 11~~9, characterized in that the amount of Bismuth is from 0.05 to 2 wt%, based on the total weight of the composition.

~~13.~~11. Method of preparation of a laser-markable composition according to claims ~~10 to 12~~9 or 10, or for processing thereof, characterized in that the preparation or processing is effected at a temperature of at least 220 °C.

~~14.~~12. Molded part comprising the laser-markable composition according to claims ~~10 to 12~~9 or 10.

~~15.~~13. Film made from the laser-markable composition according to claims ~~10 to 12~~9 or 10.