object made out of these various polymers or plastic resin. Therefor these additives are also called impact modifiers.

[007] The additive polymer composition is compatible with thermoplastic polymer compositions in general and in halogenated polymer compositions in particular.

[008] Afterwards *the* thermoplastic polymer compositions in general and in halogenated polymer compositions in particular comprising the additives are processed and/or transformed.

[009] The processed and transformed composition are made in polymeric articles or are used as polymeric part in an article.

[010] The objective of the present disclosure is to propose a polymeric composition which can be added to thermoplastic polymers as an additive.

[011] An objective of the present disclosure is also to have a polymer composition that can be used to increase the impact strength of thermoplastic polymers.

[012] Another objective of the present disclosure is also to have a polymer composition that can be used to increase the performance of extruded thermoplastic polymers.

[013] An additional objective of the present disclosure is the reduction of the price of a polymer composition which acts as impact modifier for thermoplastic polymer compositions by addition of low cost components without negatively influencing the performance of the thermoplastic polymer compositions.

[BACKGROUND]Prior art

[014] The document US 2009/0111915 discloses acrylic copolymers for use in highly filled compositions. In particular the document disclosed filled polyvinylchloride (PVC) materials as a composition for flooring comprising 70wt% to 95wt% filler, 1wt% to 15wt%PVC and 0.5wt% to 4wt% of acrylic copolymer or a composition for siding or pipe comprising 15wt% to 35wt% filler, 50wt% to 95wt%PVC and 0.25 to 6wt% of acrylic copolymer.

[015] The document WO 2010/099160 discloses composite polymer modifiers. The document discloses a composite polymer modifier consisting of 99wt% to 1wt% of inorganic filler and from 1wt% to 99wt% of a polymeric processing aid and 0wt% to 80% of an impact modifier. The impact modifier is optional, however used in some examples. This document discloses no specific advantages about certain impact modifier compositions.

[016] The document WO2007/093565 discloses a hybrid impact modifier comprising an impact modifier and a mineral filler. The document tries to solve the segregation of different components throughout of a powder composition and discloses and claims especially 3 to 20wt% of mineral filler.

[017] None of the prior art documents discloses such a specific composition as the present disclosure.

[Brief description]

[017a] In an aspect, there is provided a polymer composition P1 comprising:

a) from 29wt% to 60wt% of an inorganic mineral compound (F),

b) from 40wt% 71wt% of a polymeric impact modifier (IM1);

characterized that the two components of a) and b) add up to 100wt%.

[017b] In another aspect, there is provided a process for preparing a polymeric composition P1 comprising

a) from 29wt% to 60wt% of an inorganic compound (F)

b) from 40wt% 71wt% of a polymeric impact modifier (IM1)

characterized that the two components a) and b) add up to 100wt%, said process comprises the step of

blending the components of a) and b), while the component of b) and at least 83.33wt% of compound a) are in form of a dispersion in aqueous phase during the blending step.

[018] Surprisingly it has been found that a polymer composition P1 comprising

a) from 29wt% to 60wt% of an inorganic compound (F),

b) from 40wt% 71wt% of a polymeric impact modifier (IM1);

characterized that the two components of a) and b) add up to 100wt%, increases the impact resistance of thermoplastic polymers while still having an acceptable fusion time and yields to a better heat dissipation during the cooling of high speed processing.

[019] Surprisingly it has also been found that a process for preparing a polymer composition P1 comprising

a) from 29wt% to 60wt% of an inorganic compound (F),

b) from 40wt% 71wt% a polymeric impact modifier (IM1);

characterized that the two components of a) and b add up to 100wt%, said process comprises the step of