Blocktone 22A

Datasheet

Nano Parmin Khavaran Co.

Product description

Blocktone 22A is a specific grade of nanoclays comprised of organo-modified phyllosilicates which is used as an additive in polymeric compounds. It exhibits good compatibility with non-polar polymers and has been exclusively designed to reduce the gas permeability through the polymer matrices.

Typical properties

Color	Creamy white
Moisture	2-3%
Average particle size	21 µm
Decomposition temperature	269 °C
Chemical compatibilizer	Maleated polymers (e.g. PE-g-MA)

Applications

Blocktone 22A is compatible with non-polar thermoplastic polymers and elastomers. It improves the gas barrier properties of polymers towards oxygen, water, vapor and hydrocarbons and enhances the thermal stability of the nanocomposites. Besides, it may improve the mechanical properties of polymer-based nanocomposites such as modulus and tensile strength.

Recommended use

The recommended level for using Blocktone 22A is 3-5 parts per hundred (PHR) of total amounts of polymer compound. It may be proposed to substitute typical filler of the primary composition by the same levels of Blocktone 22A. In the case of elastomers, Blocktone 22A may reduce the scorch time, so, the vulcanization system may need to be optimized.

Processing instructions

A twin extruder or a brabender may be required to disperse Blocktone 22A in thermoplastic compositions. Maleated polymers may enhance the dispersion degree in thermoplastic materials. To prepare elastomer nanocomposites, a banbury mixer may be used to mix the Blocktone 22A in the polymer matrices.

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