Blocktone 20B

Datasheet

Nano Parmin Khavaran Co.

Product description

Blocktone 20B 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 low to medium polarity compounds 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	5 µm
Decomposition temperature	212 °C
Chemical compatibilizer	Maleated polymers (e.g. PE-g-MA)

Applications

Blocktone 20B is compatible with medium polarity 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 20B 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 20B. In the case of elastomers, Blocktone 20B 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 20B 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 20B in the polymer matrices.

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